

**CALIFORNIA
MOTOR VEHICLE STOCK, TRAVEL AND FUEL
FORECAST**



**California Department of Transportation
Division of Transportation System Information**

November 2001

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DIVISION OF TRANSPORTATION SYSTEM INFORMATION**

NOVEMBER 2001

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Federal Highway Administration

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Conversion Factors

The following factors are used in this report to convert U.S. units to metric units.

$$\text{Kilometers} = 1.609 \times \text{Miles}$$

$$\text{Liters} = 3.785 \times \text{Gallons}$$

I. SUMMARY

This is the seventeenth of a series of California Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) reports. The reports provide historical estimates and forecasts of the number of registered vehicles, miles of travel, fuel consumption, and fuel economy on a statewide basis. The forecasts are disaggregated into six vehicle body types (autos, four weight classes of trucks, and motorcycles) and two fuel types (gasoline and diesel).

The forecasts are primarily intended for short and long range statewide transportation planning, traffic forecasting and projections of revenues from excise taxes on fuel. In response to numerous requests, the statewide vehicle miles of travel (VMT) forecasts are distributed among the 58 counties and two major road systems (State Highways and all "Other" public roads) for substate planning, including transportation and air quality modeling and analysis. For the purpose of air quality conformity analysis the 1990 county VMT table is included in the appendix. Also included in this report are the vehicle fuel consumption (VFC) distributions by the 58 counties and the two-fuel types gasoline and diesel.

The MVSTAFF process requires long-term projections of statewide population, economic growth (total personal income), fuel prices, inflation, and interest rates. For this forecast, population numbers were obtained from the latest California Department of Finance (DOF) population projection reports (Ref. 4 and 5). Income projections were from the September 2001 UCLA Anderson Forecast For the Nation and California (Ref. 3). All other variables, including fuel price, were derived from the DRI-WEFA Group, "U.S. Long-Term Annual Forecast Data, July, 2001" (Ref. 7). The DRI-WEFA Group projections represent a "trend/moderate growth" scenario. The MVSTAFF forecast, therefore, reflects the same scenario superimposed on the DOF population and UCLA income projections and the existing legislation regarding current and future sales and excise taxes on fuel. The socioeconomic assumptions are further documented in the report.

The forecast results are summarized in Figure-S1. For the current year (2001), total vehicle miles of travel (VMT), and vehicle fuel consumption (VFC) are projected to increase by 2.17%, and 1.99%, respectively, from the previous year.

In 2002, the economy is expected to drop slightly. Real total personal income per person drops 1.61% and total vehicles, VMT and fuel consumption are projected to increase moderately by 1.26%, 1.71% and 1.66% respectively.

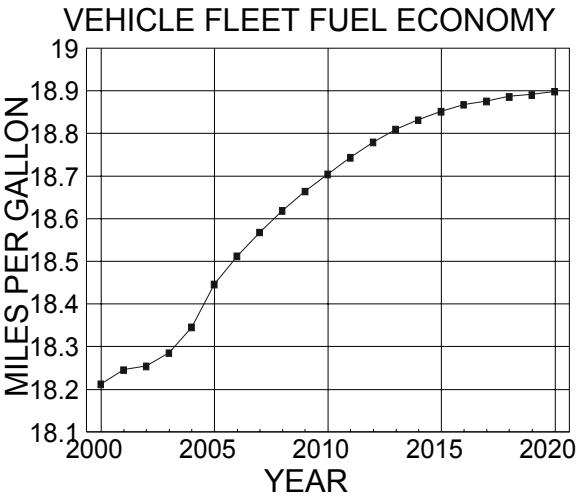
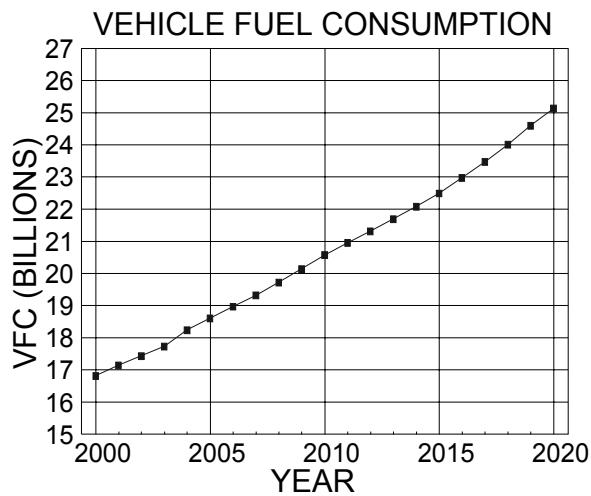
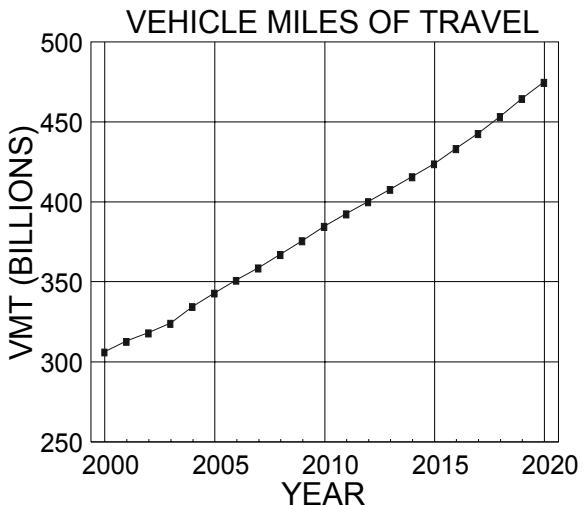
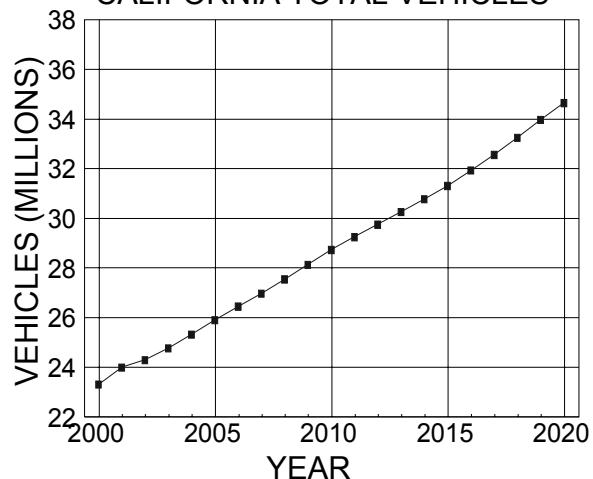
The long-term forecast is for total vehicles, vehicle travel, and fuel consumption to continue to increase but at declining rates. Under the assumption that the Corporate Average Fuel Economy (CAFE) standard for new cars will remain at 27.5 miles per gallon, and the projected increase in the proportion of heavy duty truck travel, the fleet fuel economy will reach a peak value of 18.90 miles per gallon by year 2020.

Past and projected growth in California vehicle miles of travel are affected by: population, real total personal income per person (IPP), vehicles per person (VPP), and the fuel cost per mile (FCPM) of travel, all of which are put in a historical perspective in Figure-S2. The figure shows the percent change in the variables, from the beginning of one decade to the next, for the past 50 years and the 20-year forecast period. The following can be noted from the figure:

- The decade of the 1950's experienced a 71% increase in VMT which was driven primarily by a 49% increase in population and helped along with moderate increases in per capita total personal income and vehicle ownership.
- The 1960's saw a 64% increase in VMT although population grew at about half the rate that it did in the 1950's (26% vs. the previous 49%). The driving force in the 1960's would appear to be the growth in per capita income and vehicle ownership, the highest in the 50-year history.
- The 1970's produced the smallest percentage increase in VMT (38%) in the first 40 years as a result of the lowest percentage increase in population in this 40-year period, a slower growing economy and sharply rising fuel prices (55%) in the last half of the decade.
- In the 1980's, VMT grew by 62%, rivaling its growth in the 1950's and 1960's. At the same time per capita income and vehicle ownership grew by only 12% and 7%, respectively. Most of the growth in VMT in the 1980's can therefore be attributed to strong population gains (26%) and the precipitous drop in the real fuel cost per mile of travel (57%), resulting from a 45% drop in the real price of fuel and a 30% increase in the on-road fleet fuel economy.
- In the 1990's, VMT grew by only 19% as population growth slows down to 15%; personal income shows moderate (9%) growth. Fuel cost per mile increases 12% due to a sharp increase in fuel prices in 1999 and 2000.
- In the 2000's VMT is forecasted to grow 26% as population growth rates increase slightly above the 1990's (17%), personal income increase moderately (11%). Fuel cost per mile is expected to drop 15% in the 2000's.
- In the 2010's VMT grows moderately (23%) as population growth rate increase slightly under the 1990's (14%) but personal income increase 21% almost double the rate in the 2000's. Fuel cost per mile is forecasted to be very stable, a change of less than 1.0% in 10 years.

Estimates of total system and state highway system vehicle miles of travel for the period 1965-2020 are shown in Figure-S3. Estimates of gasoline, diesel and total fuel consumption for the years 1965-2020 are shown in Figure-S4.

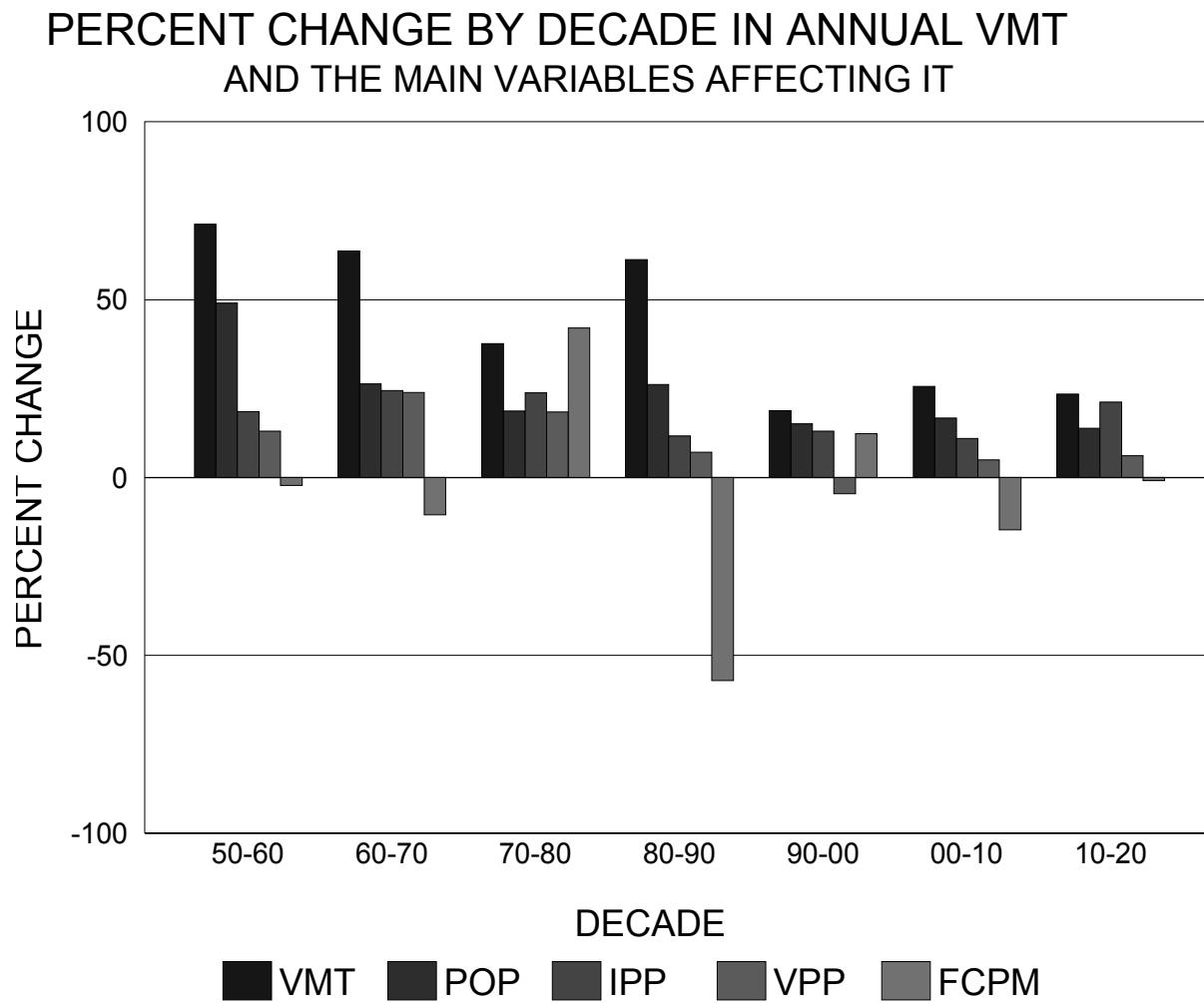
Figure-S1
Motor Vehicle Stock, Travel and Fuel Forecast
CALIFORNIA TOTAL VEHICLES



CALIFORNIA TOTAL VEHICLES, VMT, FUEL AND MPG FORECAST

YEAR	VEH	VMT	VFC	MPG	YEAR	VEH	VMT	VFC	MPG
2000	23.33	306.4	16.82	18.21	2001	24.01	313.0	17.16	18.25
2002	24.31	318.4	17.44	18.26	2003	24.79	324.4	17.74	18.29
2004	25.34	334.8	18.25	18.35	2005	25.92	343.3	18.61	18.45
2006	26.46	351.3	18.97	18.51	2007	26.99	358.9	19.33	18.57
2008	27.56	367.4	19.73	18.62	2009	28.15	376.0	20.15	18.67
2010	28.75	385.0	20.58	18.71	2011	29.26	392.8	20.96	18.74
2012					2013	30.27	400.4	21.32	18.78
2014					2015	31.33	424.2	22.50	18.85
2016					2017	31.95	433.5	22.98	18.87
2018					2019	32.58	443.1	23.47	18.88
2020					2020	33.26	453.6	24.02	18.89

Figure-S2



VMT: Vehicle Miles of Travel
POP: Population
IPP: Total Personal Income Per Person (67\$)
VPP: Vehicle Per Person
FCPM: Fuel Cost Per Mile (67\$)

Figure-S3
CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL (1965 - 2020)

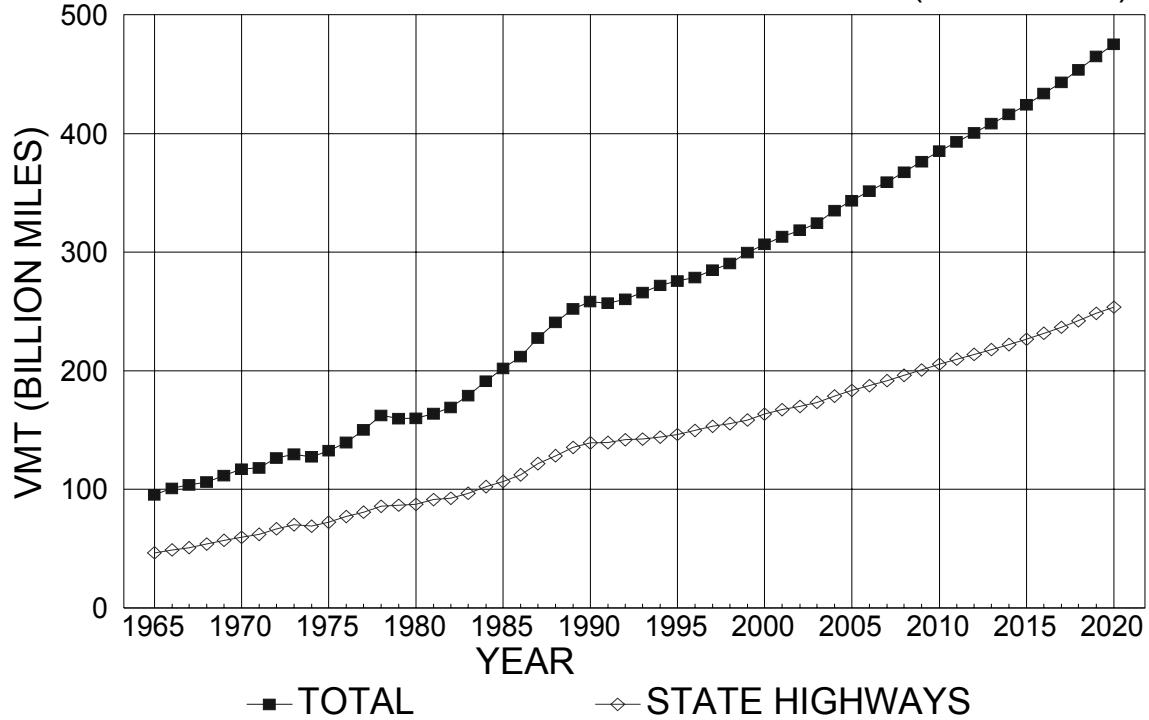
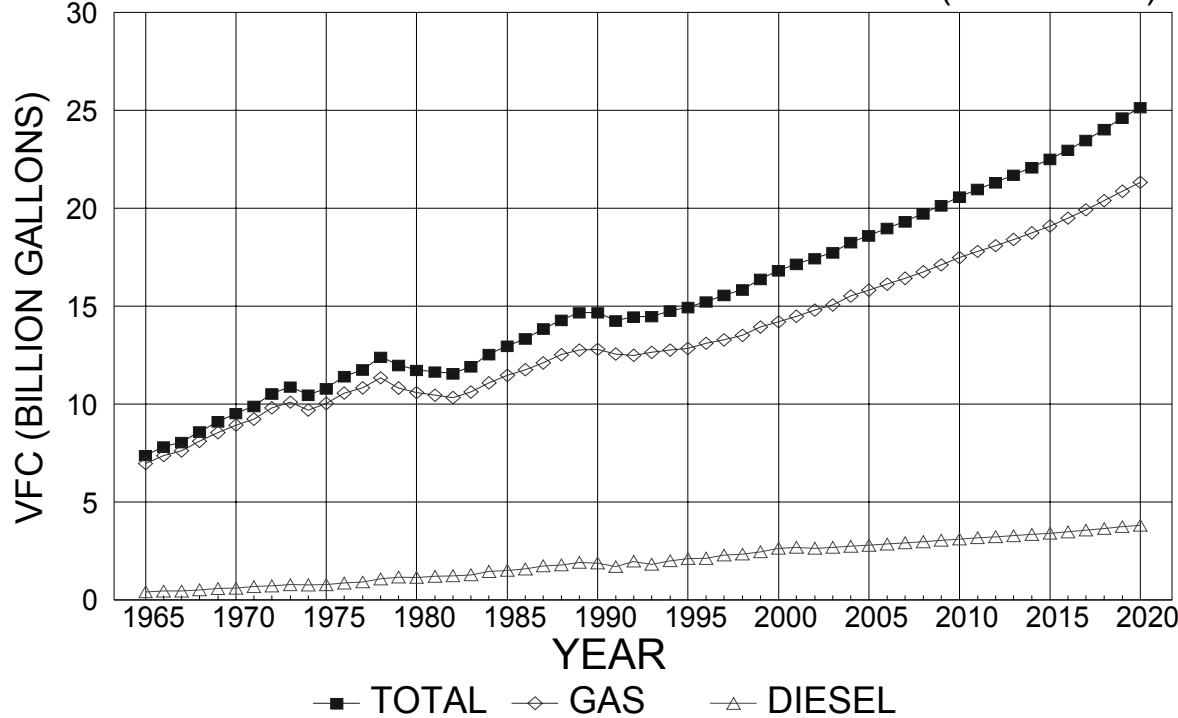


Figure-S4
CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION (1965 - 2020)



II. INTRODUCTION

The California Department of Transportation utilizes estimates and forecasts of statewide vehicle miles of travel (VMT) and vehicle fuel consumption (VFC) for a number of planning and reporting purposes. For example, estimates of VMT are needed annually for the FHWA-mandated Highway Performance Monitoring System (HPMS) program, and as input to the California Highway Patrol annual reporting system. Intermediate and long-term forecasts of VMT and VFC are used for system planning, projections of revenues from excise taxes on fuels, and air quality and energy conservation programs. To ensure that the forecasts are produced with appropriate, consistent and state-of-the-art methodologies, the Division of Transportation System Information has developed the California Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) process which it updates on a continuous basis. The results of applying the process are reported in the MVSTAFF Report, which has been published annually since 1984, except for 1990.

The forecasts are based on socioeconomic data developed by the Office of Travel Forecasting and Analysis of the Division of Transportation System Information using the latest California Department of Finance population projections (Ref. 4 & 5) and economic projections from the DRI-WEFA Group (Ref. 7) and the UCLA Anderson Forecast (Ref.3). These forecasts are primarily intended for use at the statewide level. However, the statewide total VMT forecasts have been allocated down to the county level in response to numerous requests for data at a substate level for transportation and air quality modeling and analysis.

The remaining sections of the report follow the outline listed below:

- An overview of the MVSTAFF process.
- A brief description of the socioeconomic projections which drive the forecasting process.
- A brief description of the forecast results.
- An appendix gives the county VMT (Appendix B) and VFC (Appendix C) distribution based on statewide forecasts. The statewide VMTs are distributed to the 58 counties by State Highways and all "Other" public roads and the statewide VFCs are distributed to the 58 counties by gasoline fuel and diesel fuel.

III. MVSTAFF PROCESS OVERVIEW

The MVSTAFF process is a recursive procedure, which estimates, for each year of the forecast period, the following:

- The motor vehicle stock (average number of currently registered vehicles) by six body types, two fuel types, and 25 model years or age groups.
- The fuel economy of the total fleet and each model year fleet.
- The vehicle travel and fuel consumption for the total fleet and each model year fleet.

The process consists of four major parts, which are outlined in Figure-1 and briefly described below.

1. Inventories

- Base year estimates and future year projections of the socioeconomic variables which are assumed to be the causative factors for acquiring vehicles and generating travel; base year fuel consumption; and explicit assumptions about new vehicle fuel economy.
- The base year vehicle stock stratified by vehicle type and model year, and derived estimates of the on-road fuel economy of each stratum of vehicles in the base year fleet.

2. The Stratified Rate Model

- When applied to the base year inventory, this model estimates base year vehicle travel, fuel consumption and fuel economy for each vehicle type and the total fleet.
- When applied in the forecasting mode, the Stratified Rate Model first updates the composition and fuel economy of the fleet by one year and then estimates the next year's stratified fleet, vehicle travel, fuel consumption and fuel economy.
- Imbedded in the Stratified Rate Model are submodels which forecast the total number of vehicles by vehicle type, new vehicles, in-migration vehicles, and scrappage of old vehicles and the fuel economy of new vehicles under explicit socioeconomic assumptions.

3. The Statewide Aggregate VMT and VFC Model

- This model accepts the vehicle fleet fuel economy from the Stratified Rate Model and socioeconomic data from the inventory. It estimates next year's statewide total VMT and VFC without regard to vehicle body type. Because the Aggregate Model is more directly linked to socioeconomic variables, the VMT forecasts from the model are used as control totals for the forecast years.

4. A Comparison/Adjustment Model

- This model compares and adjusts the total VMT and VFC from the Stratified Rate Model to match that from the Aggregate Model. As part of the comparison/adjustment process, statewide total diesel fuel is forecasted with a Diesel Fuel Consumption Model, and gasoline fuel is computed as the difference between total fuel and diesel fuel. Following the comparison/adjustment step, future year VMT, VFC, and vehicle fuel economy (VFE) for each vehicle type are then calculated.

The above sequence produces the "next year" forecast. The process is then recursively applied to produce forecasts for each succeeding year in the forecast period.

Statewide VMT from the above process is distributed to the 58 counties and two major road systems (State Highways and all "Other" public roads) as follows:

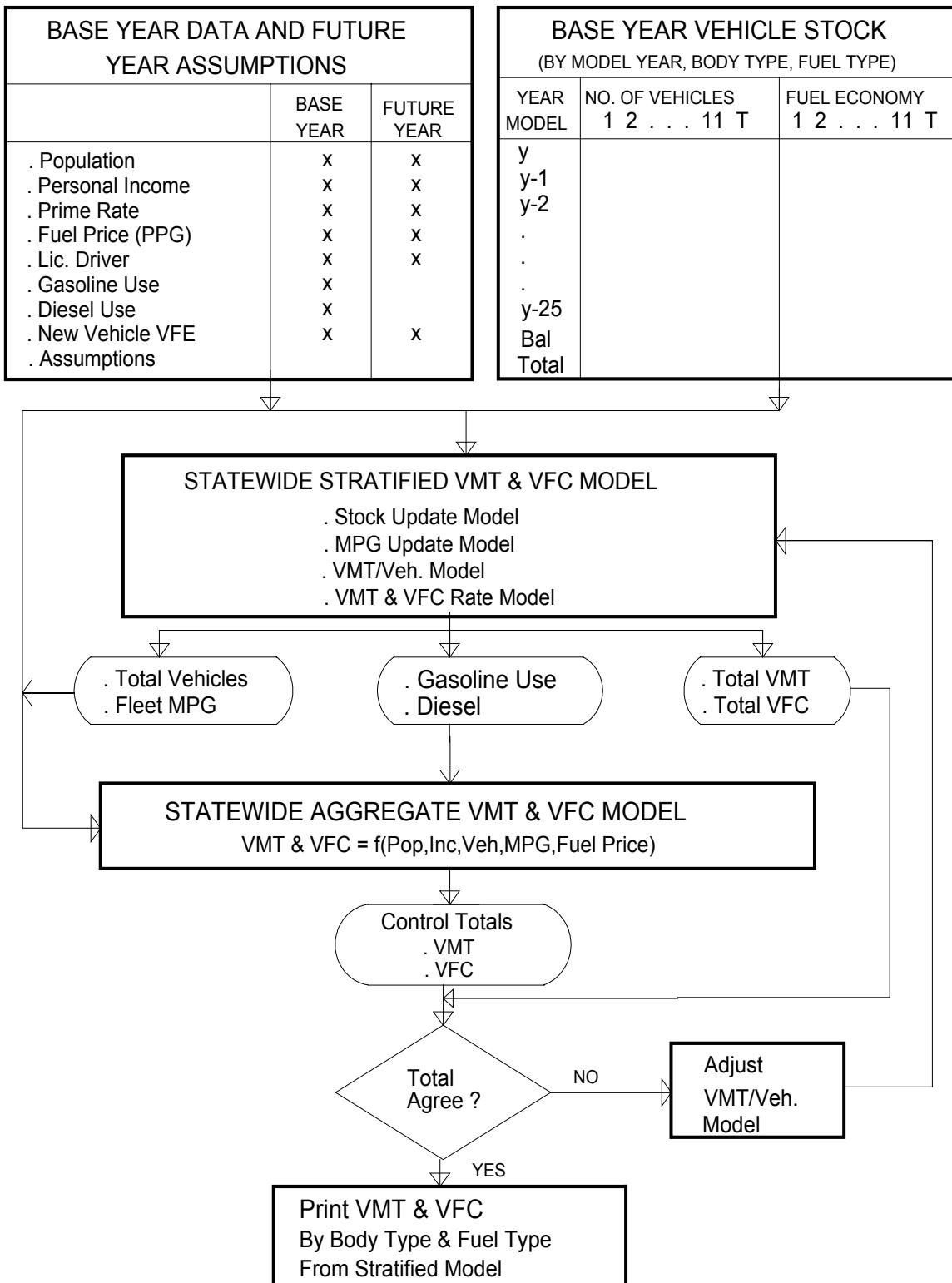
For the base year, county VMT on state highways is obtained directly from the Traffic Operations Program's annual Traffic Accident Surveillance and Analysis System (TASAS) file. County VMT on all other public roads, except that on the local road functional class, is estimated from the annual Highway Performance Monitoring System (HPMS) file. Local road VMT cannot be obtained from either TASAS or HPMS. Therefore, statewide local road VMT is calculated as the difference: statewide total VMT (MVSTAFF) minus state highway VMT (TASAS) and other road VMT (HPMS). Statewide local road VMT is then allocated to each county on the basis of the relative distribution of the quantity, "county automobile registrations times the proportion of local road mileage to the total system mileage".

For future years, the statewide VMT from MVSTAFF is distributed by applying county-specific, annualized growth rates to the base year county estimates described above. The county-specific growth rates are calculated from county population estimates recently published by the Department of Finance. The annualized rates are normalized so that the sum of counties' VMT equals the MVSTAFF statewide VMT.

Statewide VFC is distributed to the 58 counties and the two fuel types, gasoline and diesel, using estimates of county VMT, truck VMT and statewide estimates of vehicle fuel economy.

Figure-1

MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECASTING PROCESS



IV. FORECAST ASSUMPTIONS

As discussed in the previous section and shown in Figure-1, the MVSTAFF process requires base year estimates and future year projections of a number of socioeconomic variables; and explicit assumptions regarding the fuel economy of the vehicle fleet, by vehicle type. The assumptions made regarding the key variables, that drive the forecasting process, are briefly described below.

A. SOCIOECONOMIC ASSUMPTIONS

Base year (2000) estimates of population and the economic variables were obtained from the California Department of Finance (DOF), the state's official source of such information. Future year population was also obtained from DOF. Caltrans Division of Transportation System Information developed projections of the economic variables based on the information in the DRI-WEFA Group, "U.S. Long-Term Annual Forecast Data, July 2001" (Ref. 7) and the "UCLA Anderson Forecast for the Nation and California, September 2001" (Ref. 3). These projections represent a "trend/moderate growth" scenario. The MVSTAFF forecasts, therefore, reflect the same scenario imposed on the DOF population projections and the existing legislation regarding current and future taxes on fuel.

The resulting projections, which were used in the forecast, are shown graphically and in tabular form in Figures 2 to 7. A brief discussion of each variable is given below.

1. Population

Population projections used for the years 2000-2020 were the latest data available from DOF (Ref. 4 & 5). These projections are shown in Figure-2. As can be seen, the state's population is projected to continue to increase. The rate increases from a high of 1.68 percent in 2000 and then continues to fall to a low of 1.18 percent in 2011. The rate of increase goes up slightly after 2016.

2. Inflation Assumptions: The U.S. Consumer Price Index

Projections of total personal income and motor vehicle fuel prices are normally made on a current dollar basis. Because the MVSTAFF process operates on a constant dollar basis, these need to be adjusted for inflation by dividing them by projections of the U.S. Consumer Price Index (U.S. CPI). The projections of the U.S. CPI to 2020 are shown in Figure-3.

It can be seen from Figure-3 that the CPI is projected to increase at an average rate of 2.51 percent per year throughout the forecast period.

3. Total Personal Income Per Person

Statewide total personal income per person (IPP) is an important variable in a number of forecasting models used in the MVSTAFF process. For example, it is a major

determinant of new car sales, vehicle ownership and annual miles of travel per person. The 2000 base year income per person was from the California Department of Finance, and the annual percentage growth rates for the future years were derived from the UCLA Anderson Forecast for the Nation and California, September 2001 (Ref. 3).

The forecast of statewide total personal income (TPI), in 1967 dollars, is shown in Figure-4, and the forecast of total personal income per person in Figure-5. As can be seen, total personal income is expected to increase 1.32 percent but total personal income per person is expected to decrease 0.35 percent respectively, in 2001. Total personal income is projected to increase at an annual average rate of 2.94 percent for the forecast period. The income per person growth rates follow a similar pattern but at a lower rate which average to an annual rate of about 1.49 percent.

4. Fuel Price

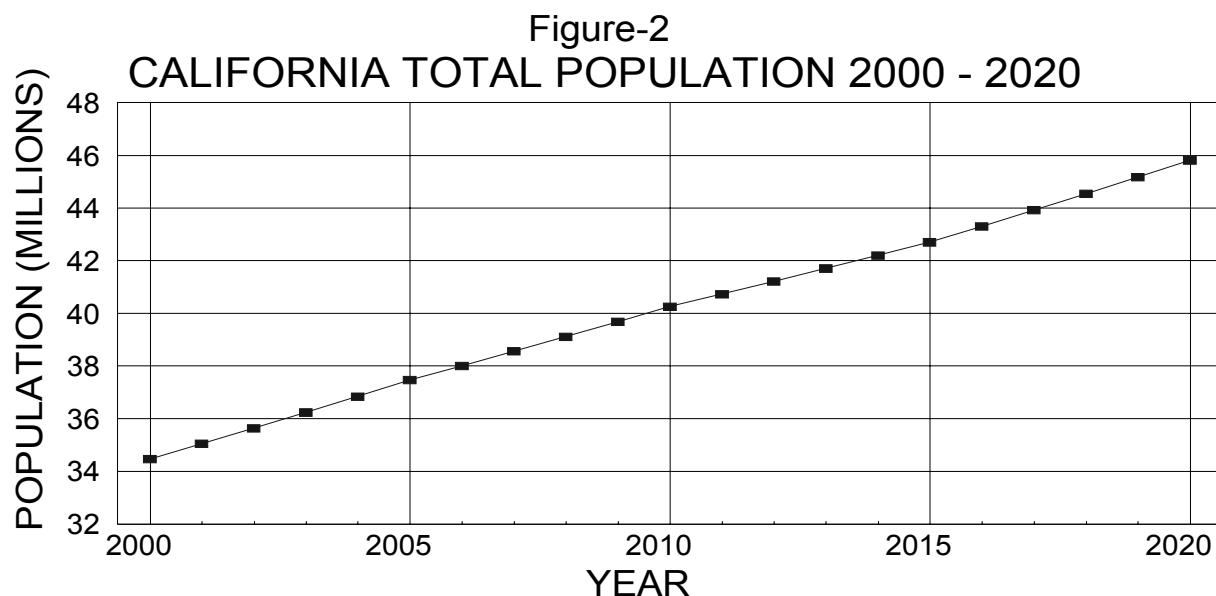
Fuel price is one of the most important variables in projecting future vehicle miles of travel and fuel consumption. This is because: (a) it directly and significantly determines the amount of vehicular travel, as shown in the development of the Statewide Aggregate VMT and VFC Model (Ref. 1); (b) over the past twenty years it has had the greatest variability of any of the socioeconomic variables used to forecast VMT and VFC; and (c) it influences the fuel economy of the new vehicle fleet which directly impacts fuel consumption.

The fuel price variable used in the forecasting process is the price of gasoline, averaged over all grades, and full service and self service sales. The price includes all excise taxes but not sales taxes. Projected gasoline prices in constant 1967 dollars are given in Figure-6. They were estimated using the DRI-WEFA long-term gasoline price forecast.

Figure-6 shows the projected fuel prices in constant (1967) dollars. Fuel price is expected to continue to fall from year 2000 to 2010 and then be steady throughout the forecast period.

5. Prime Lending Rate

The prime lending rate is one of the variables used to estimate new vehicle sales, which is needed to annually update the vehicle fleet. The prime commercial bank rates for this year's forecast are given in Figure-7. The rate is very steady but decreasing. It drops from the high of 9.23% in 2000 to the low of 7.46% in 2020. The difference is less than two percent in twenty years.

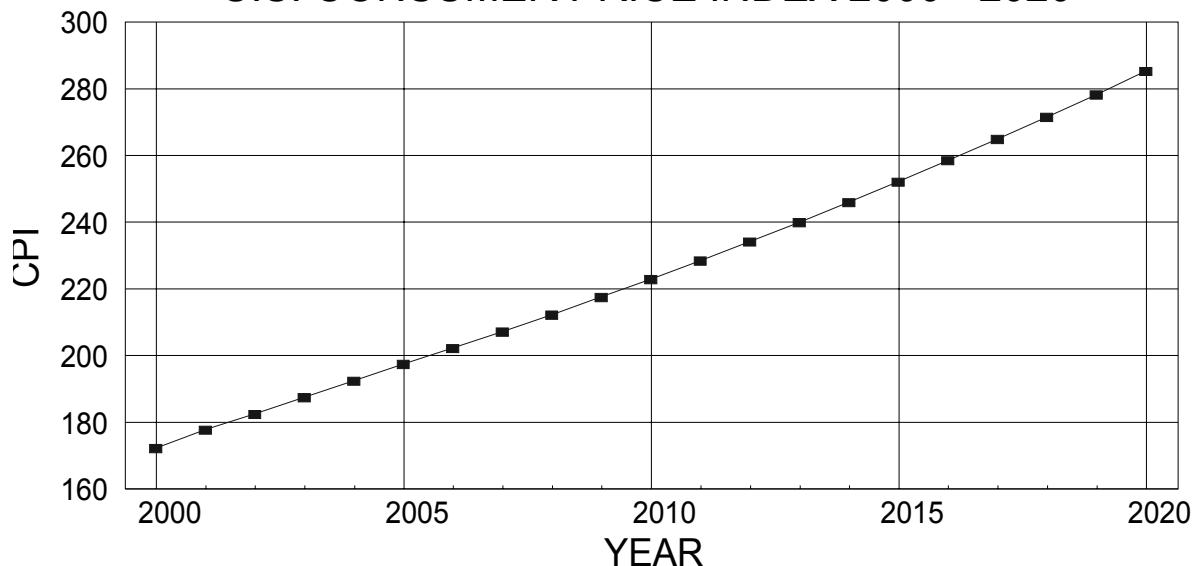


CALIFORNIA TOTAL POPULATION 2000-2020

Year	Population	%-CH
2000	34.480	□
2001	35.059	1.679
2002	35.648	1.679
2003	36.246	1.679
2004	36.855	1.679
2005	37.473	1.679
2006	38.015	1.446
2007	38.565	1.446
2008	39.123	1.446
2009	39.688	1.446
2010	40.262	1.446
2011	40.741	1.188
2012	41.225	1.188
2013	41.714	1.188
2014	42.210	1.188
2015	42.711	1.188
2016	43.316	1.416
2017	43.929	1.416
2018	44.551	1.416
2019	45.182	1.416
2020	45.822	1.416

Population in Millions

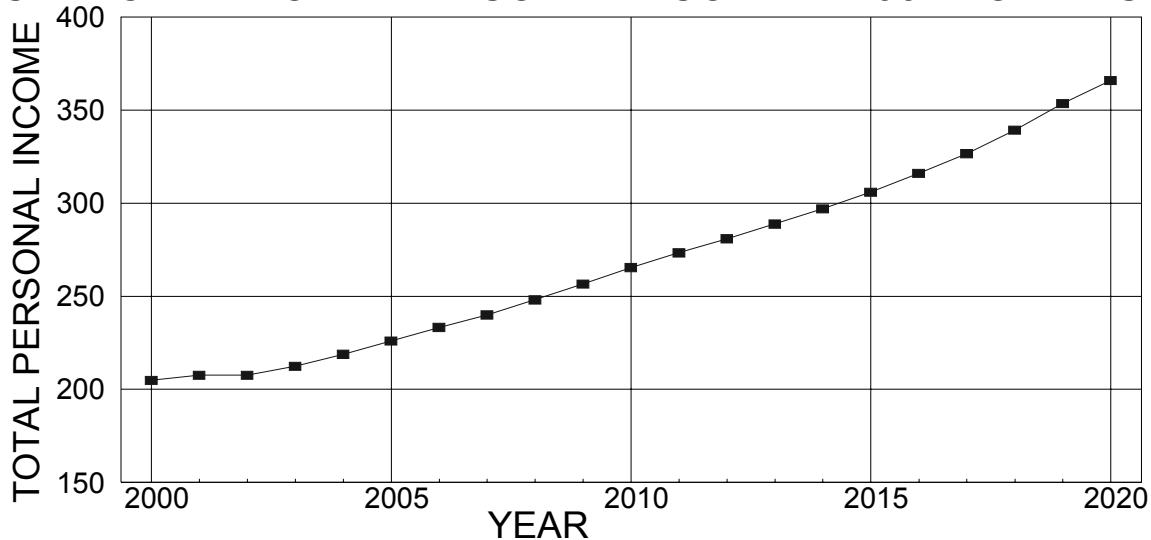
Figure-3
U.S. CONSUMER PRICE INDEX 2000 - 2020



U.S. CONSUMER PRICE INDEX, 1982-1984=100

Year	CPI	%-CH
2000	172.300	□
2001	177.800	3.192
2002	182.500	2.643
2003	187.500	2.740
2004	192.500	2.667
2005	197.500	2.597
2006	202.300	2.430
2007	207.200	2.422
2008	212.300	2.461
2009	217.600	2.496
2010	223.000	2.482
2011	228.500	2.466
2012	234.200	2.495
2013	240.100	2.519
2014	246.100	2.499
2015	252.200	2.479
2016	258.600	2.538
2017	265.000	2.475
2018	271.600	2.491
2019	278.400	2.504
2020	285.400	2.514

Figure-4
CALIFORNIA TOTAL PERSONAL INCOME IN 1967 DOLLARS

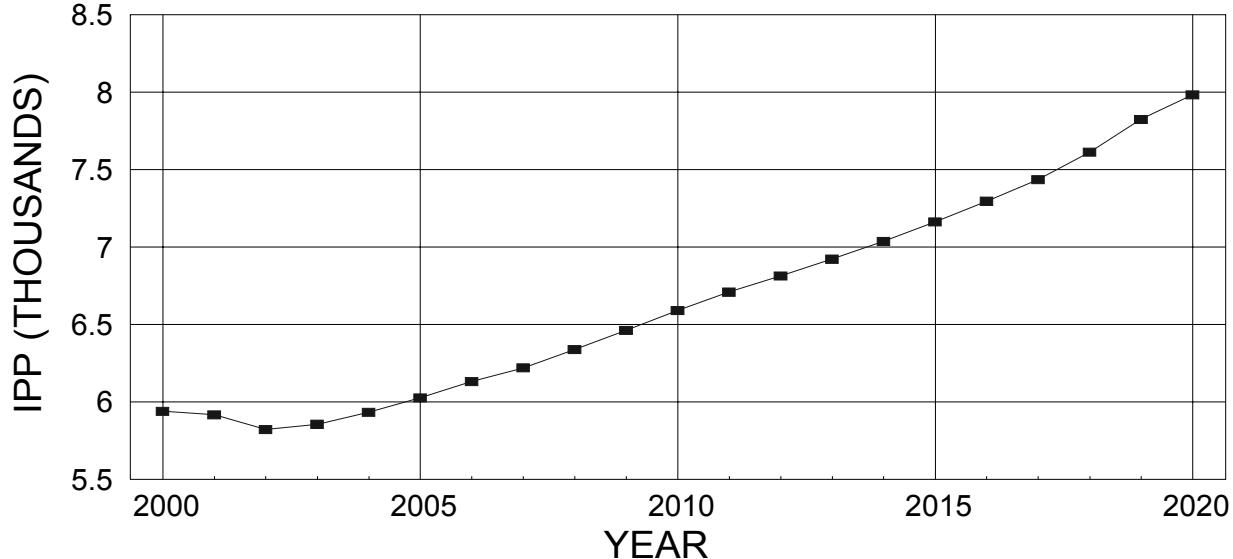


CALIFORNIA TOTAL PERSONAL INCOME

Year	TPI	%-CH
2000	204.784	□
2001	207.489	1.321
2002	207.568	0.038
2003	212.278	2.269
2004	218.729	3.039
2005	225.870	3.265
2006	233.169	3.231
2007	239.888	2.882
2008	248.034	3.396
2009	256.500	3.413
2010	265.386	3.464
2011	273.364	3.006
2012	280.909	2.760
2013	288.814	2.814
2014	297.029	2.845
2015	305.950	3.003
2016	316.081	3.311
2017	326.673	3.351
2018	339.241	3.847
2019	353.532	4.213
2020	365.896	3.497

TPI in Billions (67\$)

Figure-5
CALIFORNIA PERSONAL INCOME PER PERSON IN 1967 DOLLARS

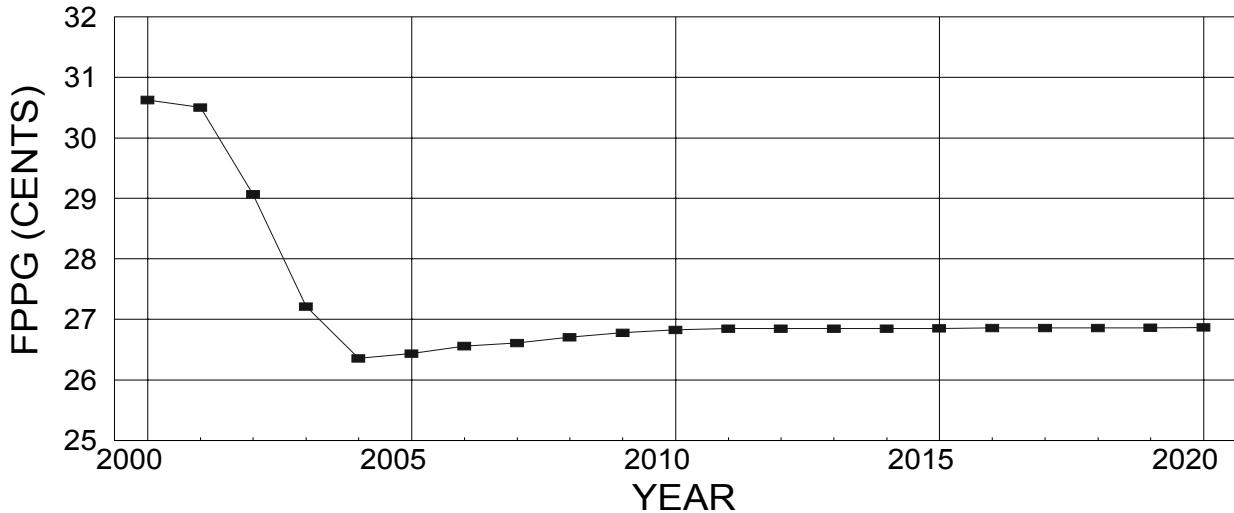


CALIFORNIA PERSONAL INCOME PER PERSON

Year	IPP	%-CH
2000	5.939	□
2001	5.918	-0.352
2002	5.823	-1.614
2003	5.857	0.581
2004	5.935	1.337
2005	6.027	1.560
2006	6.134	1.760
2007	6.220	1.415
2008	6.340	1.922
2009	6.463	1.939
2010	6.591	1.990
2011	6.710	1.797
2012	6.814	1.554
2013	6.924	1.607
2014	7.037	1.637
2015	7.163	1.794
2016	7.297	1.869
2017	7.436	1.908
2018	7.615	2.397
2019	7.825	2.758
2020	7.985	2.052

IPP in Thousands (67\$)

Figure-6
GASOLINE PRICE PER GALLON IN 1967 DOLLARS

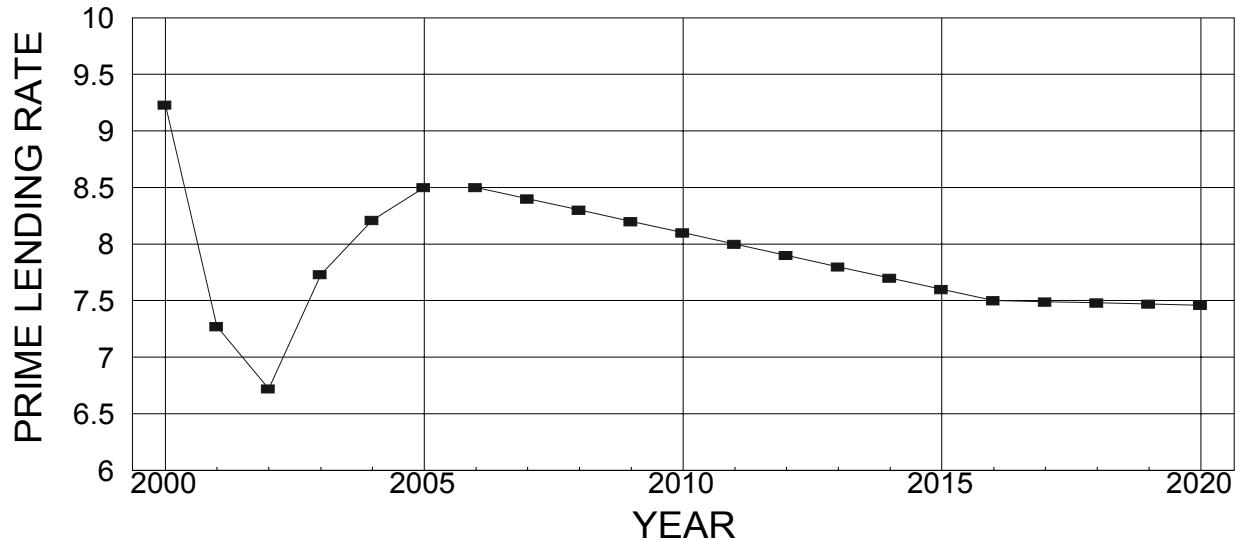


GASOLINE PRICE PER GALLON IN 1967 DOLLARS

Year	Price	%-CH
2000	30.627	□
2001	30.503	-0.402
2002	29.070	-4.698
2003	27.216	-6.380
2004	26.356	-3.160
2005	26.438	0.314
2006	26.560	0.462
2007	26.612	0.193
2008	26.708	0.360
2009	26.780	0.272
2010	26.827	0.173
2011	26.850	0.086
2012	26.850	0.001
2013	26.850	0.000
2014	26.851	0.003
2015	26.853	0.009
2016	26.856	0.009
2017	26.859	0.014
2018	26.862	0.011
2019	26.865	0.011
2020	26.867	0.008

Price in Cents (67\$)

Figure-7
PRIME LENDING RATE 2000 - 2020



PRIME LENDING RATE 2000-2020

Year	Prime	%-CH
2000	9.230	□
2001	7.270	-21.235
2002	6.720	-7.565
2003	7.730	15.030
2004	8.210	6.210
2005	8.500	3.532
2006	8.500	0.000
2007	8.400	-1.176
2008	8.300	-1.190
2009	8.200	-1.205
2010	8.100	-1.220
2011	8.000	-1.235
2012	7.900	-1.250
2013	7.800	-1.266
2014	7.700	-1.282
2015	7.600	-1.299
2016	7.500	-1.316
2017	7.490	-0.133
2018	7.480	-0.134
2019	7.470	-0.134
2020	7.460	-0.134

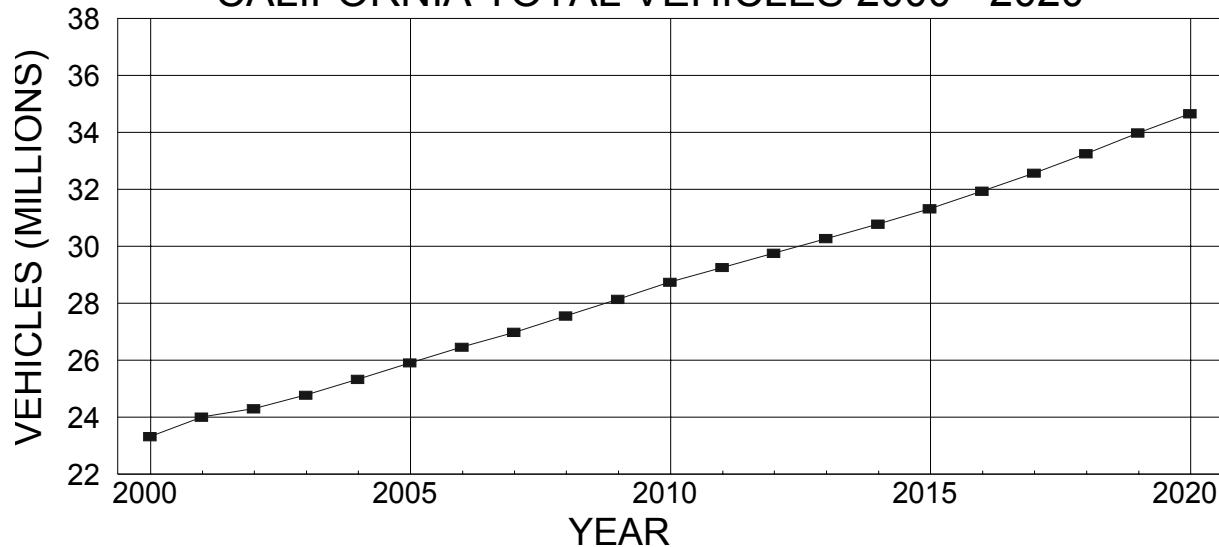
B. NEW VEHICLE FUEL ECONOMY

The MVSTAFF process requires explicit assumptions of the fuel economy of new vehicles entering the fleet each year. The recent update of the MPG model using the 1994 to 2000 Department of Motor Vehicles' vehicle population profile for California, and the EPA Gas Mileage Guides showed that the light duty vehicle fleets (autos and trucks of gross vehicle weight less than 10,000 pounds) meet the national Corporate Average Fuel Economy (CAFE) standards. Because of the fact that the CAFE standard has not been changed, it was assumed the new light duty fleets would continue to have the same fuel economy into the future.

For the medium truck fleets (gross vehicle weight from 10,001 to 33,000 lbs.) and heavy-duty truck fleets (gross vehicle weight greater than 33,000 lbs.), it was reasoned that the manufacturers and buyers are aware of the significance of the fuel operating cost to the trucking industry and that the long-term outlook is for higher fuel prices. Hence, there will be a continuous need and effort to improve truck fuel economy so that in the long run, fuel operating costs will not increase beyond current levels. Using the vehicle fuel economy values from the 1977, 1982, 1987, 1992 Truck Inventory and Use Survey (TIUS) Reports (Ref. 6) and the 1997 Vehicle Inventory and Use Survey (VIUS) Report (Ref. 8) an average annual fleet MPG improvement was calculated for each vehicle and fuel type. These rates of improvement were assumed to continue in the future.

Fuel economy of motorcycles was assumed to be a constant on-road value of 50.0 miles per gallon.

Figure-8
CALIFORNIA TOTAL VEHICLES 2000 - 2020



CALIFORNIA TOTAL VEHICLES 2000-2020

Year	Vehicles	%-CH
2000	23.326	□
2001	24.008	2.924
2002	24.310	1.258
2003	24.787	1.962
2004	25.337	2.219
2005	25.917	2.289
2006	26.464	2.111
2007	26.987	1.976
2008	27.564	2.138
2009	28.149	2.122
2010	28.748	2.128
2011	29.263	1.791
2012	29.762	1.705
2013	30.271	1.710
2014	30.788	1.708
2015	31.325	1.744
2016	31.946	1.982
2017	32.579	1.981
2018	33.263	2.100
2019	33.989	2.183
2020	34.660	1.974

Vehicles in Millions

V. FORECAST RESULTS

A. Motor Vehicle Stock

The total vehicle figures used in this report are the average number of currently registered motor vehicles in operation in each calendar year. The estimates of the base year and the forecast years are provided in Figure-8. Values in the figure represent all vehicle body types (autos, trucks and motorcycles) and fuel types (gasoline and diesel).

Total vehicles are expected to increase by 2.92% in 2001. However, the long-term forecast is for vehicles to continue to increase, but at declining rates, as population growth slows down and vehicle ownership reaches saturation levels.

Total vehicles were stratified into body type, fuel type, and model year categories with the vehicle stock update model. Table-1 gives the forecasted number of vehicles in each body type and fuel type category for the years 2000 to 2015 and 2020.

Figure-9 graphically shows the estimates of total gasoline plus diesel vehicles, by body type, for the years 2000 to 2020. The plots correspond to the data given in the upper part of Table-1. Although motorcycles are not shown as a separate entry in the figure, they are included in the "Total" graph.

TABLE-1: CALIFORNIA TOTAL VEHICLES (MILLIONS)

VEH. TYPE	CAL. YEAR	AUTOS	TRK1	BODY TYPE TRK2	TRK3	TRK4	M.C.	TOTAL
T	2000	16.971	3.407	2.025	0.381	0.127	0.414	23.326
	2001	17.524	3.387	2.126	0.391	0.131	0.450	24.008
	2002	17.784	3.414	2.143	0.391	0.131	0.447	24.310
	2003	18.133	3.490	2.190	0.397	0.133	0.443	24.787
	2004	18.537	3.575	2.244	0.404	0.135	0.441	25.337
	2005	18.961	3.665	2.300	0.412	0.138	0.441	25.917
	2006	19.362	3.748	2.353	0.419	0.140	0.442	26.464
	2007	19.746	3.828	2.403	0.426	0.142	0.442	26.987
	2008	20.169	3.916	2.458	0.434	0.145	0.442	27.564
	2009	20.600	4.004	2.513	0.442	0.147	0.442	28.149
	2010	21.040	4.094	2.570	0.451	0.150	0.442	28.748
	2011	21.419	4.172	2.619	0.458	0.152	0.442	29.263
	2012	21.787	4.247	2.666	0.465	0.154	0.442	29.762
	2013	22.162	4.324	2.714	0.472	0.157	0.442	30.271
	2014	22.544	4.401	2.762	0.480	0.159	0.442	30.788
	2015	22.940	4.481	2.813	0.487	0.161	0.442	31.325
	2020	25.407	4.975	3.122	0.537	0.177	0.442	34.660
G	2000	16.821	3.389	1.852	0.149	0.001	0.414	22.627
	2001	17.377	3.370	1.942	0.148	0.001	0.450	23.289
	2002	17.654	3.400	1.957	0.144	0.001	0.447	23.603
	2003	18.018	3.478	2.001	0.143	0.001	0.443	24.084
	2004	18.433	3.565	2.051	0.143	0.001	0.441	24.635
	2005	18.867	3.655	2.103	0.144	0.001	0.441	25.212
	2006	19.276	3.740	2.153	0.145	0.001	0.442	25.757
	2007	19.668	3.821	2.201	0.146	0.001	0.442	26.279
	2008	20.097	3.910	2.253	0.148	0.001	0.442	26.851
	2009	20.533	3.999	2.305	0.150	0.001	0.442	27.430
	2010	20.978	4.089	2.358	0.152	0.001	0.442	28.022
	2011	21.361	4.168	2.404	0.154	0.001	0.442	28.531
	2012	21.731	4.243	2.449	0.156	0.001	0.442	29.023
	2013	22.109	4.320	2.494	0.159	0.001	0.442	29.525
	2014	22.492	4.398	2.539	0.161	0.001	0.442	30.034
	2015	22.890	4.479	2.586	0.164	0.001	0.442	30.562
	2020	25.357	4.973	2.872	0.181	0.002	0.442	33.828
D	2000	0.150	0.018	0.173	0.232	0.126	0.000	0.699
	2001	0.147	0.016	0.184	0.243	0.130	0.000	0.719
	2002	0.130	0.014	0.186	0.247	0.130	0.000	0.707
	2003	0.115	0.012	0.190	0.254	0.132	0.000	0.703
	2004	0.104	0.011	0.193	0.261	0.134	0.000	0.703
	2005	0.094	0.009	0.197	0.268	0.137	0.000	0.705
	2006	0.085	0.008	0.200	0.274	0.139	0.000	0.706
	2007	0.078	0.007	0.202	0.280	0.141	0.000	0.709
	2008	0.072	0.006	0.205	0.286	0.144	0.000	0.713
	2009	0.066	0.006	0.208	0.293	0.146	0.000	0.719
	2010	0.062	0.005	0.211	0.299	0.149	0.000	0.726
	2011	0.059	0.004	0.214	0.304	0.151	0.000	0.732
	2012	0.056	0.004	0.217	0.309	0.153	0.000	0.738
	2013	0.054	0.003	0.220	0.313	0.155	0.000	0.746
	2014	0.052	0.003	0.223	0.318	0.158	0.000	0.754
	2015	0.051	0.002	0.227	0.323	0.160	0.000	0.763
	2020	0.050	0.001	0.250	0.356	0.176	0.000	0.832

Figure-9
CALIFORNIA TOTAL VEHICLES BY BODY TYPE

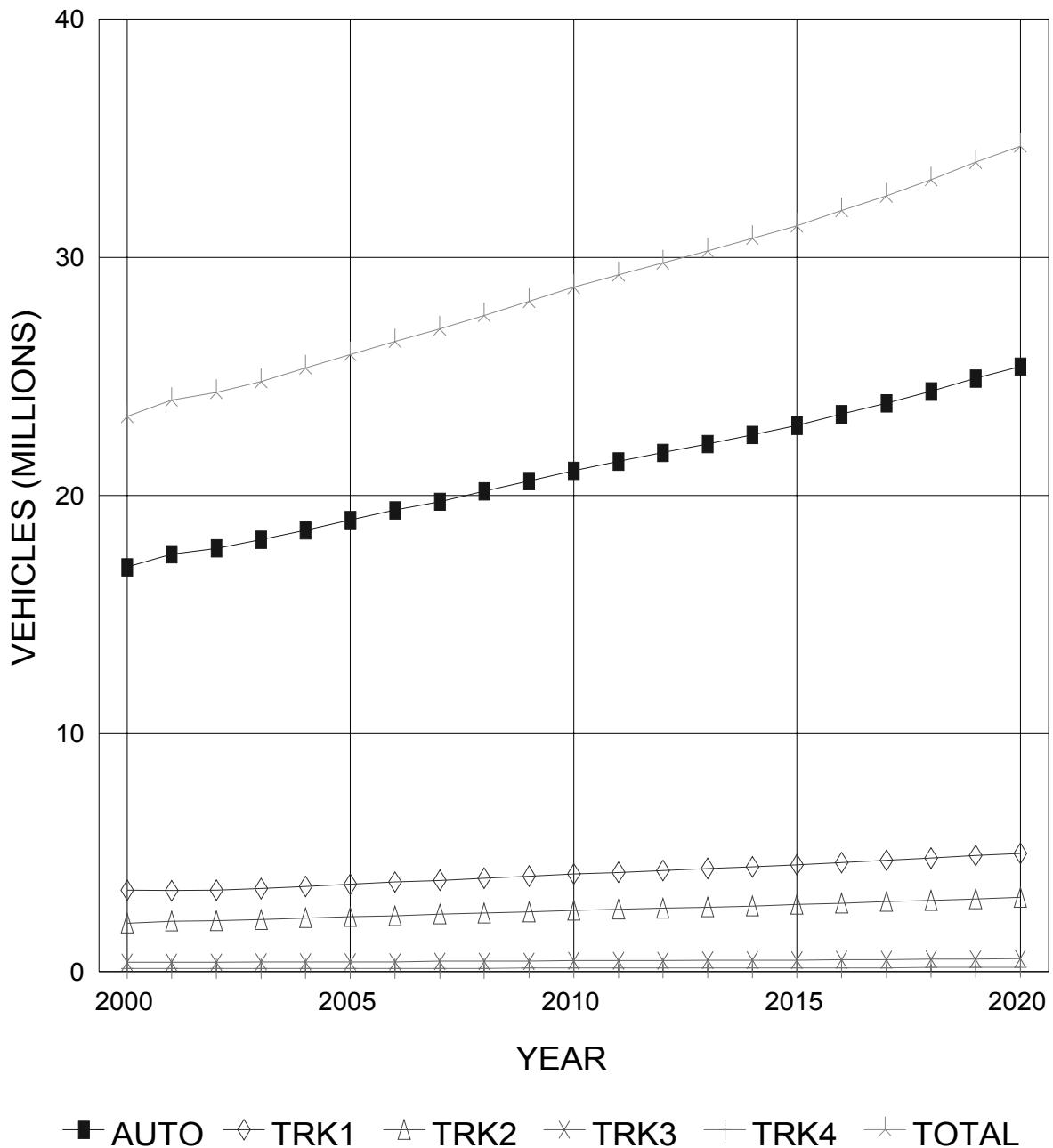
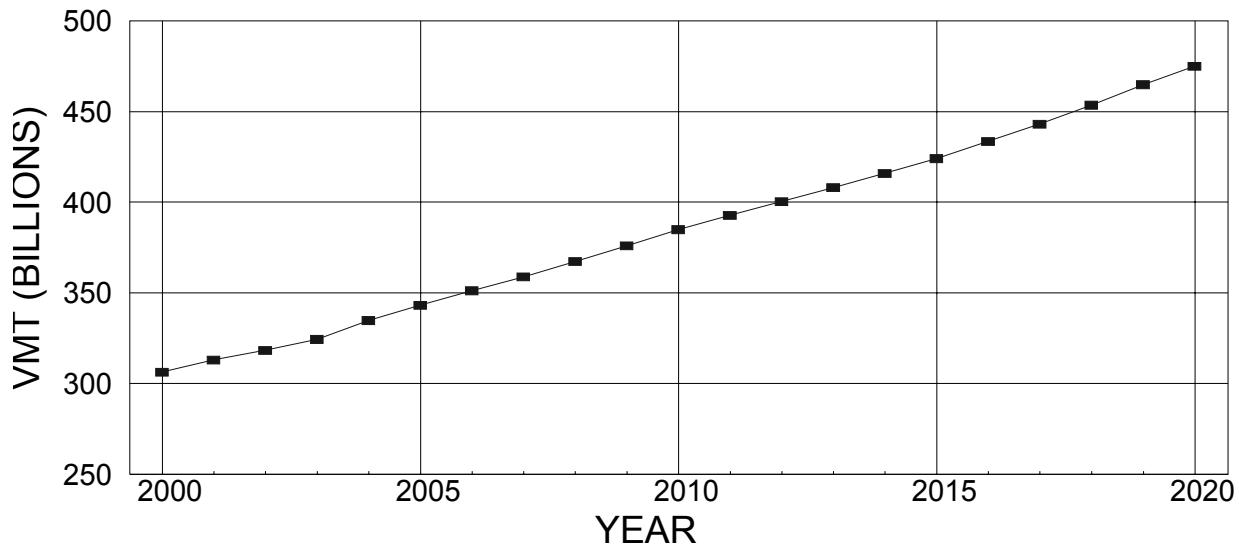


Figure-10
CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL



CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL

Year	VMT	%-CH
2000	306.371	□
2001	313.020	2.170
2002	318.364	1.707
2003	324.405	1.898
2004	334.809	3.207
2005	343.326	2.544
2006	351.264	2.312
2007	358.916	2.178
2008	367.373	2.356
2009	376.043	2.360
2010	384.985	2.378
2011	392.833	2.039
2012	400.407	1.928
2013	408.138	1.931
2014	415.986	1.923
2015	424.176	1.969
2016	433.547	2.209
2017	443.090	2.201
2018	453.620	2.376
2019	464.843	2.474
2020	475.058	2.198

VMT in Billion Miles

B. Vehicle Miles of Travel

Statewide total vehicle miles of travel projected by the forecast are given in Figure-10. The values in the figure represent travel by all vehicle body types and fuel types on all public roads.

The 2000 vehicle miles of travel (VMT) estimate of 306.371 is based on the 2000 on-road fuel consumption estimate from the Board of Equalization's sales data, and the 2000 on-road vehicle fleet fuel economy from the MVSTAFF Stratified Rate Model. Annual statewide VMT is expected to increase 2.2 percent in 2001 and 1.7 percent in 2002. The long-term forecast is for VMT to continue to grow, but at significantly lower rates than it has in the past. The slow down is predicated on lower statewide population and economic growth. For air quality conformity analysis purposes the annual VMT in 5-year increments from 1990 are listed in Table-1.1.

Forecasts of statewide total VMT stratified by six body types and two fuel types are given in Table-2. Graphs of VMT by body type are given in Figure-11. The graphs correspond to the data in the upper part of Table-2. Although VMT by motorcycles is not shown as a separate entry in the figure, it is included in the "Total VMT" graph.

Table-1.1
Total Statewide VMT and Five-year Percent Change

YEAR	VMT	%-CH
1990	259.003	
1995	276.968	6.936
2000	306.371	10.616
2005	343.326	12.062
2010	384.985	12.133
2015	424.176	10.180
2020	475.058	11.995

VMT in Billion Miles

Table-2 CALIFORNIA TOTAL VEHICLE MILES OF TRAVEL (BILLIONS)

VEH. TYPE	CAL. YEAR	AUTOS	BODY TYPE				M.C.	TOTAL
			TRK1	TRK2	TRK3	TRK4		
T O T A L	2000	219.448	42.034	25.768	10.059	8.152	0.910	306.371
	2001	225.097	40.971	27.350	10.310	8.300	0.991	313.020
	2002	228.431	41.620	28.912	10.131	8.286	0.984	318.364
	2003	232.192	42.431	30.002	10.284	8.520	0.975	324.405
	2004	239.332	43.857	31.369	10.496	8.786	0.971	334.809
	2005	245.092	44.985	32.469	10.736	9.072	0.971	343.326
	2006	250.384	46.119	33.467	10.971	9.351	0.972	351.264
	2007	255.542	47.242	34.367	11.181	9.612	0.972	358.916
	2008	261.305	48.478	35.275	11.432	9.911	0.972	367.373
	2009	267.254	49.753	36.159	11.689	10.215	0.973	376.043
	2010	273.424	51.073	37.035	11.952	10.528	0.973	384.985
	2011	278.832	52.264	37.792	12.170	10.803	0.973	392.833
	2012	284.068	53.421	38.507	12.372	11.066	0.973	400.407
	2013	289.433	54.585	39.226	12.586	11.335	0.973	408.138
	2014	294.902	55.750	39.952	12.808	11.602	0.973	415.986
	2015	300.626	56.941	40.708	13.050	11.877	0.973	424.176
	2020	336.519	63.907	45.426	14.706	13.526	0.973	475.058
G A S O L I N E	2000	218.062	41.934	23.357	1.866	0.010	0.910	286.139
	2001	223.767	40.890	24.832	1.831	0.011	0.991	292.322
	2002	227.258	41.555	26.315	1.818	0.013	0.984	297.944
	2003	231.171	42.382	27.373	1.867	0.015	0.975	303.783
	2004	238.411	43.820	28.673	1.925	0.017	0.971	313.816
	2005	244.254	44.957	29.723	1.990	0.019	0.971	321.912
	2006	249.612	46.098	30.671	2.053	0.020	0.972	329.425
	2007	254.822	47.225	31.525	2.112	0.022	0.972	336.678
	2008	260.624	48.464	32.380	2.179	0.024	0.972	344.643
	2009	266.601	49.741	33.210	2.246	0.026	0.973	352.797
	2010	272.793	51.062	34.029	2.314	0.028	0.973	361.199
	2011	278.217	52.255	34.736	2.374	0.029	0.973	368.583
	2012	283.465	53.413	35.402	2.429	0.030	0.973	375.713
	2013	288.838	54.578	36.070	2.484	0.032	0.973	382.975
	2014	294.311	55.743	36.743	2.540	0.033	0.973	390.342
	2015	300.035	56.936	37.442	2.598	0.034	0.973	398.019
	2020	335.894	63.903	41.791	2.957	0.039	0.973	445.558
D I E S E L	2000	1.386	0.100	2.412	8.194	8.141	0.000	20.232
	2001	1.329	0.082	2.518	8.479	8.289	0.000	20.697
	2002	1.173	0.066	2.597	8.312	8.273	0.000	20.421
	2003	1.021	0.049	2.629	8.418	8.505	0.000	20.622
	2004	0.921	0.037	2.696	8.570	8.770	0.000	20.993
	2005	0.839	0.028	2.747	8.746	9.053	0.000	21.413
	2006	0.773	0.022	2.796	8.918	9.330	0.000	21.838
	2007	0.720	0.017	2.842	9.069	9.590	0.000	22.238
	2008	0.681	0.014	2.894	9.254	9.887	0.000	22.730
	2009	0.652	0.012	2.949	9.444	10.190	0.000	23.246
	2010	0.631	0.010	3.006	9.638	10.500	0.000	23.786
	2011	0.615	0.009	3.056	9.796	10.774	0.000	24.250
	2012	0.602	0.008	3.105	9.944	11.036	0.000	24.695
	2013	0.595	0.007	3.156	10.101	11.303	0.000	25.163
	2014	0.591	0.006	3.209	10.268	11.569	0.000	25.644
	2015	0.590	0.006	3.266	10.452	11.843	0.000	26.157
	2020	0.625	0.004	3.636	11.749	13.487	0.000	29.500

Figure-11

CALIFORNIA VEHICLE MILES OF TRAVEL BY BODY TYPE

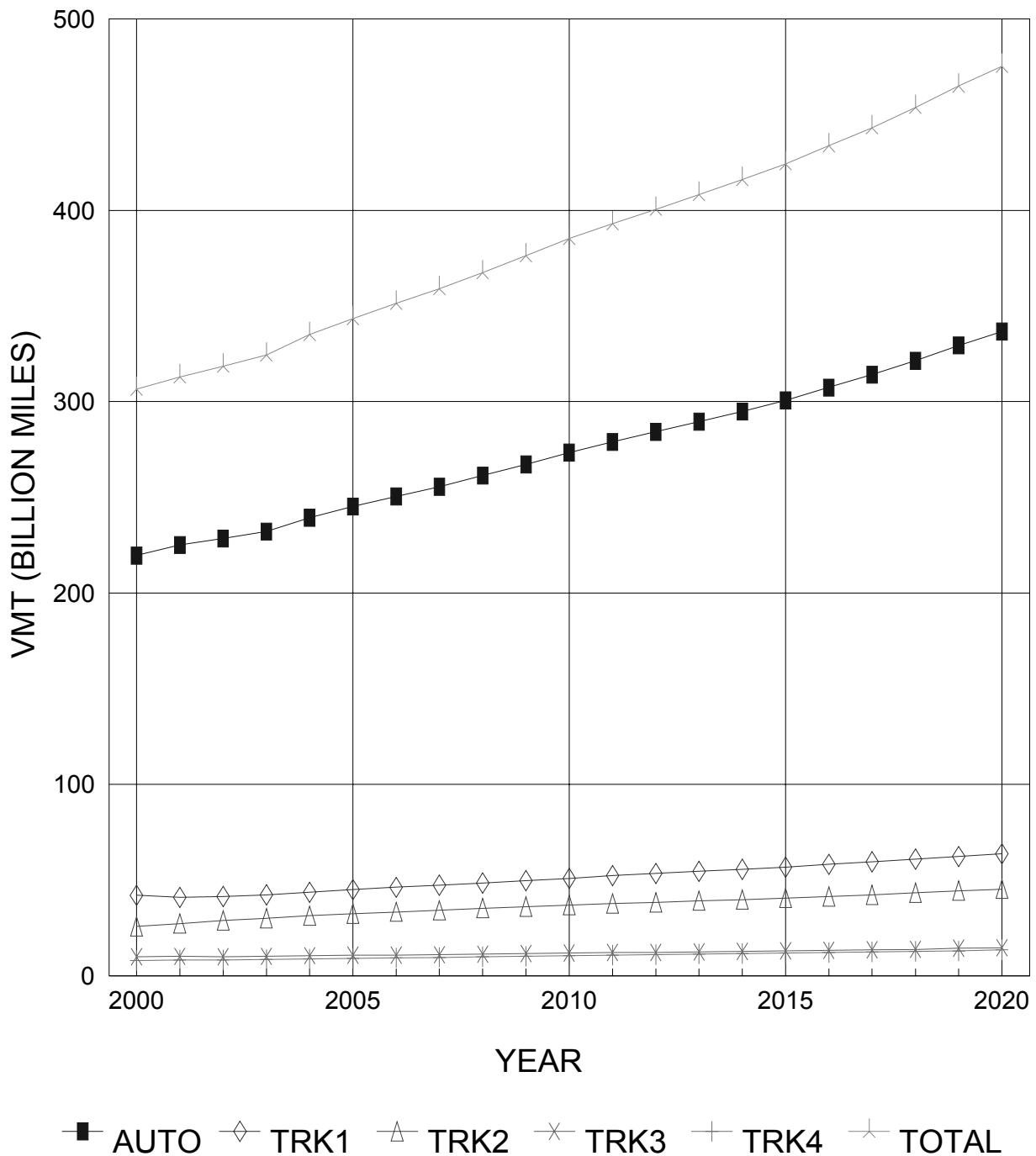
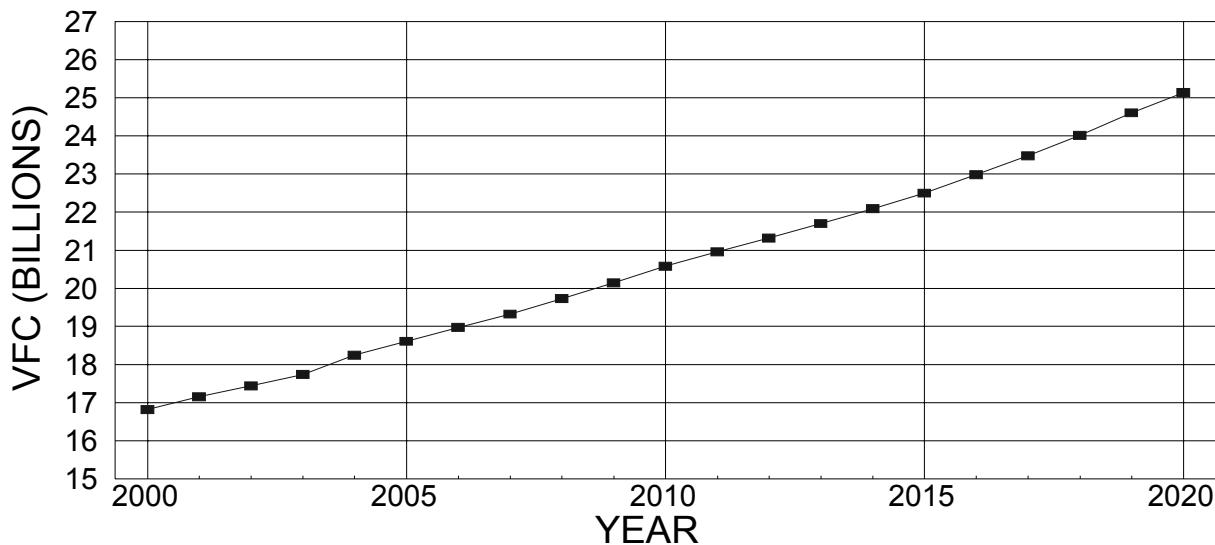


Figure-12
CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION



CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION

Year	VFC	%-CH
2000	16.821	□
2001	17.155	1.986
2002	17.440	1.661
2003	17.741	1.726
2004	18.250	2.869
2005	18.611	1.978
2006	18.974	1.950
2007	19.329	1.871
2008	19.731	2.080
2009	20.147	2.108
2010	20.582	2.159
2011	20.957	1.822
2012	21.321	1.737
2013	21.698	1.768
2014	22.089	1.802
2015	22.500	1.861
2016	22.978	2.124
2017	23.474	2.159
2018	24.017	2.313
2019	24.606	2.452
2020	25.137	2.158

VFC in Billion Gallons

C. Vehicle Fuel Consumption

Statewide total on-road fuel consumption projected by the forecast is given in Figure-12. The values represent total gasoline and diesel fuel used on all public roads. The base year (2000) values are estimates using Board of Equalization data. Forecasts beyond 2000 use the MVSTAFF process with the 2000 estimate as a base.

As can be seen from Figure-12, on-road fuel consumption is expected to increase 1.99% in 2001. Annual fuel consumption by vehicle type and fuel type for each year of the forecast is given in Table-3. Total fuel consumption is expected to increase for autos and all types of trucks. Diesel fuel consumption for autos and light trucks are decreasing because the numbers of these total vehicles are projected to decrease.

Figure-13 graphs the annual total fuel consumption of the vehicle fleet by body type for years 2000 to 2020. The graphs correspond to the data given in the upper part of Table-3. Although motorcycle fuel consumption is not shown as a separate entry in the figure, it is included in the "Total" graph.

Table-3: CALIFORNIA TOTAL VEHICLE FUEL CONSUMPTION (BILLIONS)

VEH. TYPE	CAL. YEAR	AUTOS	BODY TYPE				M.C.	TOTAL
			TRK1	TRK2	TRK3	TRK4		
T O T A L	2000	10.003	2.253	1.840	1.291	1.415	0.018	16.821
	2001	10.258	2.199	1.929	1.317	1.432	0.020	17.155
	2002	10.449	2.245	2.016	1.289	1.421	0.020	17.440
	2003	10.597	2.292	2.073	1.305	1.454	0.020	17.741
	2004	10.893	2.365	2.153	1.329	1.491	0.019	18.250
	2005	11.074	2.415	2.215	1.357	1.531	0.019	18.611
	2006	11.257	2.468	2.274	1.384	1.571	0.019	18.974
	2007	11.444	2.521	2.328	1.409	1.608	0.019	19.329
	2008	11.660	2.580	2.384	1.439	1.650	0.019	19.731
	2009	11.885	2.642	2.439	1.469	1.693	0.019	20.147
	2010	12.123	2.707	2.495	1.501	1.738	0.019	20.582
	2011	12.327	2.764	2.543	1.528	1.776	0.019	20.957
	2012	12.527	2.820	2.590	1.552	1.812	0.019	21.321
	2013	12.738	2.878	2.637	1.578	1.848	0.019	21.698
GASES	2014	12.958	2.936	2.685	1.606	1.886	0.019	22.089
	2015	13.193	2.994	2.735	1.635	1.923	0.019	22.500
	2020	14.721	3.349	3.051	1.840	2.157	0.019	25.137
GASES	2000	9.953	2.249	1.706	0.261	0.002	0.018	14.188
	2001	10.210	2.196	1.788	0.255	0.002	0.020	14.470
	2002	10.407	2.242	1.870	0.252	0.002	0.020	14.793
	2003	10.561	2.290	1.925	0.258	0.003	0.020	15.055
	2004	10.859	2.363	2.000	0.266	0.003	0.019	15.511
	2005	11.044	2.414	2.059	0.274	0.003	0.019	15.813
	2006	11.229	2.467	2.115	0.282	0.004	0.019	16.117
	2007	11.418	2.520	2.166	0.290	0.004	0.019	16.418
	2008	11.636	2.579	2.219	0.299	0.004	0.019	16.756
	2009	11.862	2.641	2.271	0.308	0.004	0.019	17.105
	2010	12.101	2.706	2.323	0.317	0.005	0.019	17.471
	2011	12.305	2.764	2.369	0.325	0.005	0.019	17.786
	2012	12.505	2.820	2.412	0.332	0.005	0.019	18.095
	2013	12.717	2.878	2.457	0.339	0.005	0.019	18.415
	2014	12.937	2.935	2.501	0.347	0.006	0.019	18.746
	2015	13.172	2.994	2.548	0.355	0.006	0.019	19.094
	2020	14.699	3.349	2.843	0.403	0.007	0.019	21.320
DIESEL	2000	0.051	0.004	0.134	1.030	1.413	0.000	2.633
	2001	0.049	0.003	0.141	1.062	1.430	0.000	2.685
	2002	0.042	0.003	0.146	1.037	1.419	0.000	2.647
	2003	0.037	0.002	0.148	1.047	1.452	0.000	2.686
	2004	0.033	0.002	0.153	1.063	1.488	0.000	2.739
	2005	0.030	0.001	0.156	1.083	1.528	0.000	2.798
	2006	0.028	0.001	0.159	1.102	1.567	0.000	2.857
	2007	0.026	0.001	0.162	1.119	1.604	0.000	2.911
	2008	0.024	0.001	0.165	1.140	1.645	0.000	2.975
	2009	0.023	0.000	0.168	1.162	1.689	0.000	3.042
	2010	0.022	0.000	0.172	1.185	1.733	0.000	3.112
	2011	0.022	0.000	0.175	1.203	1.771	0.000	3.171
	2012	0.022	0.000	0.177	1.220	1.807	0.000	3.226
	2013	0.021	0.000	0.180	1.239	1.843	0.000	3.283
	2014	0.021	0.000	0.183	1.259	1.880	0.000	3.344
	2015	0.021	0.000	0.187	1.281	1.917	0.000	3.405
	2020	0.022	0.000	0.208	1.437	2.150	0.000	3.818

Figure-13

CALIFORNIA VEHICLE FUEL CONSUMPTION BY BODY TYPE

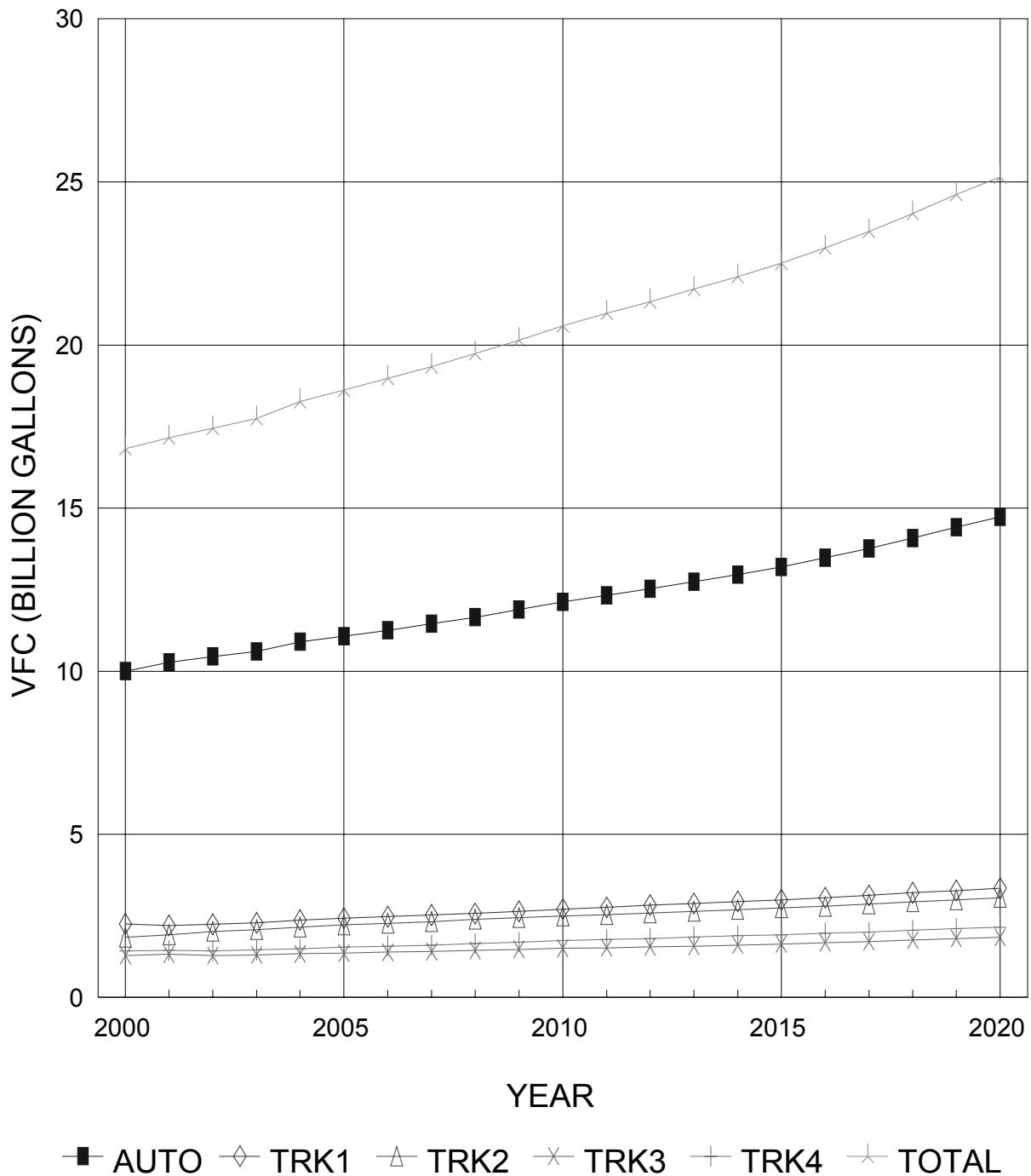
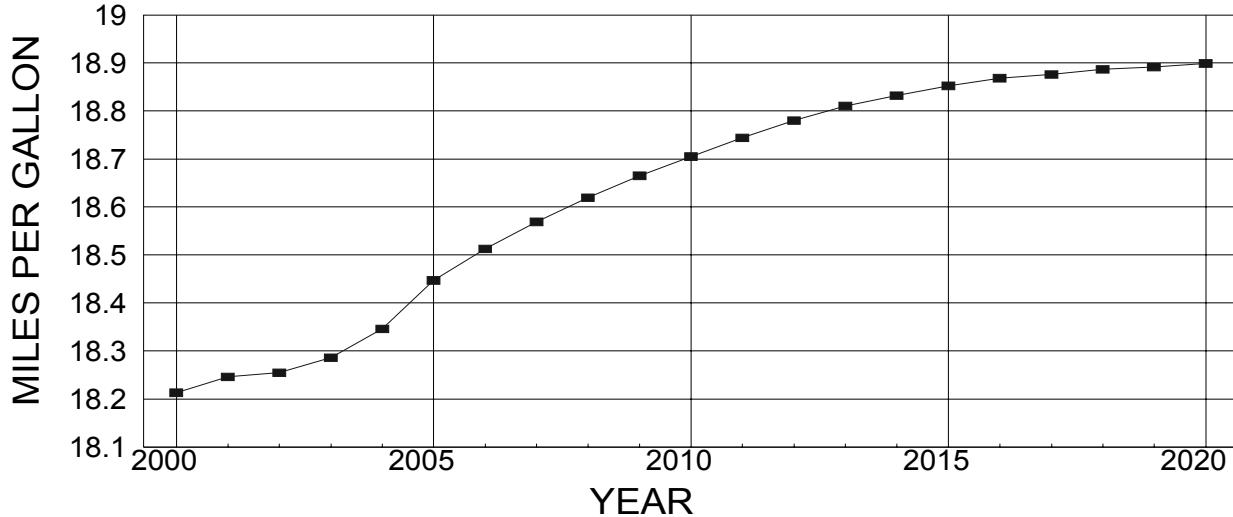


Figure-14
CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY



CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY

Year	MPG	%-CH
2000	18.213	□
2001	18.246	0.181
2002	18.255	0.049
2003	18.286	0.170
2004	18.346	0.328
2005	18.447	0.551
2006	18.513	0.358
2007	18.569	0.302
2008	18.619	0.269
2009	18.665	0.247
2010	18.705	0.214
2011	18.744	0.209
2012	18.780	0.192
2013	18.810	0.160
2014	18.832	0.117
2015	18.852	0.106
2016	18.868	0.085
2017	18.876	0.042
2018	18.887	0.058
2019	18.891	0.021
2020	18.899	0.042

MPG: Miles Per Gallon

D. Vehicle Fuel Economy

Forecasts of the total fleet on-road fuel economy are given in Figure-14. The results are a direct output of the Stratified Rate Model which computes the harmonic average fuel economy by weighting the number of vehicles in each stratum by the annual miles of travel and fuel economy of that stratum.

As can be seen from Figure-14, total fleet fuel economy is expected to improve slightly throughout the forecast period. This is the result of the assumption that the new car fleet fuel economy will remain at 27.5 miles per gallon, replacing the older and lower fuel efficiency vehicles.

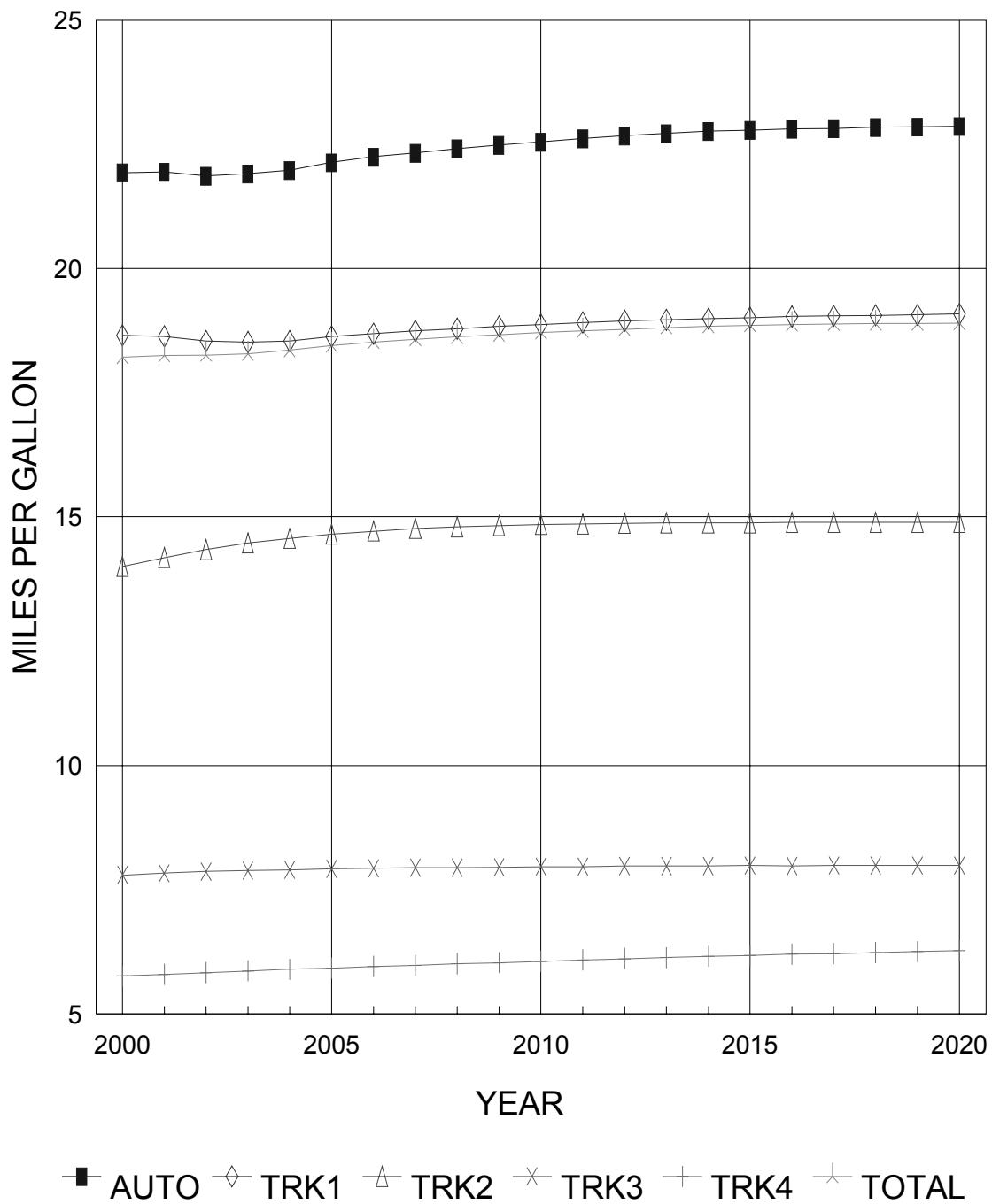
Fuel economies of the fleet, stratified by body type and fuel type for each year of the forecast, are given in Table-4. Vehicle fuel economy is projected to continuously improve for all strata of vehicles. The greatest improvements are being projected for the heavy trucks. Fuel economy of year 2020 automobile fleet will be slightly (4.21 percent) better than it was in 2000; while the total vehicle fleet fuel economy will be only 3.77 percent better than it was in 2000.

Figure-15 graphs the fuel economy of the vehicle fleet stratified by body type for the years 2000 to 2020. The graphs correspond to the data given in the upper part of Table-4. Although the fuel economy of motorcycles (assumed to be a constant value of 50.0 miles per gallon) is not shown in the figure, its effect is included in the "Total" graph.

Table-4: CALIFORNIA TOTAL VEHICLE FLEET FUEL ECONOMY

VEH. CAL. TYPE YEAR	AUTOS	BODY TYPE				M.C.	TOTAL	
		TRK1	TRK2	TRK3	TRK4			
T O T A L	2000	21.937	18.654	14.004	7.793	5.760	50.000	18.213
	2001	21.943	18.629	14.180	7.830	5.795	50.000	18.246
	2002	21.861	18.542	14.339	7.859	5.830	50.000	18.255
	2003	21.910	18.516	14.473	7.881	5.859	50.000	18.286
	2004	21.972	18.544	14.569	7.898	5.894	50.000	18.346
	2005	22.133	18.627	14.657	7.914	5.924	50.000	18.447
	2006	22.243	18.686	14.714	7.925	5.954	50.000	18.513
	2007	22.330	18.739	14.763	7.936	5.978	50.000	18.569
	2008	22.411	18.790	14.798	7.946	6.008	50.000	18.619
	2009	22.487	18.832	14.826	7.957	6.033	50.000	18.665
	2010	22.555	18.870	14.845	7.962	6.058	50.000	18.705
	2011	22.620	18.909	14.859	7.966	6.083	50.000	18.744
	2012	22.677	18.941	14.869	7.971	6.107	50.000	18.780
	2013	22.723	18.968	14.876	7.976	6.132	50.000	18.810
G A S O L I N E	2014	22.759	18.990	14.882	7.975	6.152	50.000	18.832
	2015	22.787	19.016	14.885	7.981	6.177	50.000	18.852
	2020	22.860	19.083	14.890	7.990	6.271	50.000	18.899
	2000	21.910	18.644	13.691	7.161	5.693	50.000	20.167
	2001	21.917	18.621	13.888	7.186	5.711	50.000	20.202
	2002	21.838	18.536	14.069	7.210	5.730	50.000	20.141
	2003	21.890	18.511	14.223	7.228	5.744	50.000	20.178
	2004	21.954	18.541	14.334	7.247	5.758	50.000	20.232
	2005	22.117	18.625	14.434	7.259	5.768	50.000	20.357
	2006	22.229	18.683	14.500	7.271	5.775	50.000	20.440
	2007	22.317	18.738	14.556	7.284	5.785	50.000	20.507
	2008	22.399	18.788	14.595	7.290	5.794	50.000	20.568
	2009	22.475	18.831	14.626	7.302	5.799	50.000	20.625
	2010	22.544	18.869	14.648	7.308	5.804	50.000	20.675
	2011	22.611	18.909	14.664	7.308	5.813	50.000	20.723
	2012	22.667	18.940	14.675	7.314	5.817	50.000	20.764
	2013	22.713	18.967	14.683	7.320	5.823	50.000	20.797
	2014	22.749	18.990	14.690	7.320	5.822	50.000	20.823
	2015	22.778	19.016	14.693	7.327	5.827	50.000	20.845
	2020	22.852	19.083	14.699	7.333	5.836	50.000	20.899
D I E S E L	2000	27.302	23.589	17.985	7.953	5.760	0.000	7.685
	2001	27.397	23.634	17.892	7.985	5.795	0.000	7.708
	2002	27.650	23.610	17.797	8.016	5.830	0.000	7.714
	2003	27.706	23.695	17.711	8.042	5.860	0.000	7.679
	2004	27.712	23.699	17.647	8.061	5.894	0.000	7.666
	2005	28.011	23.639	17.600	8.080	5.924	0.000	7.653
	2006	28.065	26.308	17.565	8.092	5.954	0.000	7.645
	2007	28.182	23.987	17.540	8.105	5.979	0.000	7.639
	2008	28.286	23.997	17.524	8.118	6.009	0.000	7.640
	2009	28.670	23.994	17.514	8.131	6.034	0.000	7.642
	2010	28.670	24.009	17.508	8.137	6.058	0.000	7.644
	2011	28.019	23.992	17.504	8.143	6.083	0.000	7.647
	2012	27.922	24.009	17.502	8.150	6.108	0.000	7.654
	2013	28.580	24.021	17.501	8.156	6.133	0.000	7.665
	2014	28.512	24.035	17.500	8.156	6.153	0.000	7.669
	2015	28.426	24.030	17.500	8.162	6.178	0.000	7.681
	2020	28.336	23.966	17.500	8.175	6.272	0.000	7.728

Figure-15
CALIFORNIA VEHICLE FLEET FUEL ECONOMY BY BODY TYPE



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APPENDIX A

Vehicle Body Type Definitions:

The motor vehicle fleet is stratified into six classes by body type, one class of autos, four classes of trucks by gross vehicle weight and one class of motorcycles. These are defined as follows:

- AUTOS AUTOS include all passenger vehicles registered as regular autos and station wagons.
- TRK1 TRK1 includes all Truck Gross Vehicle Weight Class 1 trucks (GVW 0 to 6,000 lbs.)
- TRK2 TRK2 includes all Truck Gross Vehicle Weight Class 2 trucks (GVW 6,001 to 10,000 lbs.)
- TRK3 TRK3 includes trucks of Truck Gross Vehicle Weight Classes 3 (GVW 10,001 to 14,000 lbs.), 4 (GVW 14,001 to 16,000 lbs.), 5 (GVW 16,001 to 19,500 lbs.), 6 (GVW 19,501 to 26,000 lbs.), and 7 (GVW 26,001 to 33,000 lbs.)
- TRK4 TRK4 includes all trucks of Truck Gross Vehicle Weight Classes 8 and above (GVW 33,001+ lbs.)
- MC MC includes all registered motorcycles which excludes motor-bicycles and off-road motor-powered dirt bikes.

APPENDIX B

CALIFORNIA VEHICLE MILES/KILOMETERS OF TRAVEL BY COUNTY AND ROAD SYSTEM

1990 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	7152.000	4279.340	11431.340
ALPINE	41.000	7.262	48.262
AMADOR	223.000	61.620	284.620
BUTTE	540.000	915.457	1455.457
CALAVERAS	215.000	89.559	304.559
COLUSA	347.000	102.236	449.236
CONTRA COSTA	3445.000	3246.368	6691.368
DEL NORTE	150.000	61.124	211.124
EL DORADO	757.000	474.890	1231.890
FRESNO	2066.000	3172.677	5238.677
GLENN	290.000	91.583	381.583
HUMBOLDT	661.000	408.296	1069.296
IMPERIAL	800.000	452.897	1252.897
INYO	382.000	65.501	447.501
KERN	3275.000	2022.720	5297.720
KINGS	489.000	417.384	906.384
LAKE	256.000	120.888	376.888
LASSEN	265.000	200.682	465.682
LOS ANGELES	34243.000	37622.039	71865.040
MADERA	655.000	281.274	936.274
MARIN	1409.000	1082.729	2491.729
MARIPOSA	105.000	103.366	208.366
MENDOCINO	619.000	346.644	965.644
MERCED	1289.000	470.881	1759.881
MODOC	83.000	60.075	143.075
MONO	276.000	24.399	300.399
MONTEREY	1710.000	1372.504	3082.504
NAPA	531.000	356.069	887.069
NEVADA	565.000	308.774	873.774
ORANGE	11304.000	11466.120	22770.120
PLACER	1295.000	702.972	1997.972
PLUMAS	160.000	99.828	259.828
RIVERSIDE	7170.000	4289.729	11459.730
SACRAMENTO	3771.000	5032.580	8803.580
SAN BENITO	255.000	93.997	348.997
SAN BERNARDINO	8593.000	4624.414	13217.410
SAN DIEGO	12088.000	9415.592	21503.590
SAN FRANCISCO	1441.000	2191.836	3632.836
SAN JOAQUIN	2415.000	1931.905	4346.905
SAN LUIS OBISPO	1482.000	698.928	2180.928
SAN MATEO	4212.000	2003.598	6215.598
SANTA BARBARA	1963.000	1055.183	3018.183
SANTA CLARA	5915.000	7116.808	13031.810
SANTA CRUZ	892.000	846.475	1738.475
SHASTA	973.000	614.108	1587.108
SIERRA	60.000	29.915	89.915
SISKIYOU	570.000	199.754	769.754
SOLANO	2381.000	970.847	3351.847
SONOMA	1605.000	1425.999	3030.999
STANISLAUS	1268.000	1509.908	2777.908
SUTTER	320.000	275.183	595.183
TEHAMA	516.000	215.304	731.304
TRINITY	117.000	25.272	142.272
TULARE	1173.000	1300.106	2473.106
TUOLUMNE	291.000	190.485	481.485
VENTURA	2931.000	2464.488	5395.488
YOLO	979.000	533.314	1512.314
YUBA	230.000	250.136	480.136
TOTAL	139209.000	119794.000	259003.000

1990 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	11510.028	6886.930	18396.959
ALPINE	65.983	11.687	77.670
AMADOR	358.884	99.168	458.051
BUTTE	869.046	1473.285	2342.331
CALAVERAS	346.009	144.131	490.140
COLUSA	558.442	164.533	722.975
CONTRA COSTA	5544.190	5224.523	10768.713
DEL NORTE	241.402	98.370	339.771
EL DORADO	1218.273	764.261	1982.535
FRESNO	3324.905	5105.929	8430.833
GLENN	466.710	147.389	614.098
HUMBOLDT	1063.776	657.089	1720.865
IMPERIAL	1287.475	728.867	2016.342
INYO	614.769	105.414	720.183
KERN	5270.602	3255.252	8525.854
KINGS	786.969	671.714	1458.684
LAKE	411.992	194.550	606.542
LASSEN	426.476	322.966	749.443
LOS ANGELES	55108.766	60546.805	115655.571
MADERA	1054.120	452.667	1506.787
MARIN	2267.566	1742.483	4010.049
MARIPOSA	168.981	166.351	335.333
MENDOCINO	996.184	557.869	1554.053
MERCED	2074.444	757.810	2832.254
MODOC	133.576	96.681	230.257
MONO	444.179	39.266	483.445
MONTEREY	2751.978	2208.831	4960.809
NAPA	854.562	573.038	1427.599
NEVADA	909.279	496.924	1406.203
ORANGE	18192.025	18452.932	36644.956
PLACER	2084.101	1131.324	3215.424
PLUMAS	257.495	160.658	418.153
RIVERSIDE	11538.996	6903.649	18442.648
SACRAMENTO	6068.836	8099.152	14167.989
SAN BENITO	410.383	151.274	561.656
SAN BERNARDINO	13829.093	7442.273	21271.360
SAN DIEGO	19453.750	15152.927	34606.674
SAN FRANCISCO	2319.065	3527.418	5846.483
SAN JOAQUIN	3886.566	3109.100	6995.666
SAN LUIS OBISPO	2385.048	1124.816	3509.863
SAN MATEO	6778.557	3224.479	10003.035
SANTA BARBARA	3159.142	1698.152	4857.295
SANTA CLARA	9519.270	11453.393	20972.665
SANTA CRUZ	1435.535	1362.269	2797.804
SHASTA	1565.892	988.311	2554.203
SIERRA	96.561	48.144	144.704
SISKIYOU	917.326	321.473	1238.799
SOLANO	3831.848	1562.427	5394.275
SONOMA	2582.997	2294.923	4877.920
STANISLAUS	2040.648	2429.961	4470.610
SUTTER	514.990	442.864	957.854
TEHAMA	830.422	346.498	1176.920
TRINITY	188.293	40.671	228.965
TULARE	1887.760	2092.318	3980.078
TUOLUMNE	468.319	306.556	774.875
VENTURA	4716.987	3966.209	8683.196
YOLO	1575.548	858.286	2433.833
YUBA	370.149	402.555	772.704
TOTAL	224035.172	192789.750	416824.925

1995 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	7446.094	4978.716	12424.810
ALPINE	42.031	8.258	50.288
AMADOR	245.670	84.153	329.823
BUTTE	607.915	981.743	1589.659
CALAVERAS	250.213	115.479	365.692
COLUSA	392.990	109.167	502.157
CONTRA COSTA	3643.810	3466.372	7110.182
DEL NORTE	157.375	67.824	225.199
EL DORADO	802.615	660.853	1463.468
FRESNO	2349.317	3697.812	6047.128
GLENN	322.618	120.538	443.156
HUMBOLDT	686.710	442.605	1129.314
IMPERIAL	880.310	502.488	1382.798
INYO	373.176	72.673	445.849
KERN	3692.823	2365.436	6058.259
KINGS	517.071	450.224	967.295
LAKE	298.372	159.667	458.039
LASSEN	313.735	243.389	557.124
LOS ANGELES	35077.895	38915.496	73993.391
MADERA	778.416	345.037	1123.453
MARIN	1433.790	1123.358	2557.148
MARISPOSA	125.356	114.461	239.817
MENDOCINO	646.967	419.624	1066.591
MERCED	1349.182	740.422	2089.604
MODOC	92.546	68.090	160.636
MONO	251.333	26.732	278.064
MONTEREY	1803.910	1421.387	3225.297
NAPA	536.263	373.575	909.837
NEVADA	634.526	344.081	978.607
ORANGE	11224.334	11905.607	23129.941
PLACER	1489.990	1039.482	2529.472
PLUMAS	180.789	109.287	290.076
RIVERSIDE	7380.951	4928.492	12309.442
SACRAMENTO	4193.164	5100.004	9293.169
SAN BENITO	285.832	119.000	404.832
SAN BERNARDINO	9716.704	5973.938	15690.642
SAN DIEGO	12603.485	10450.808	23054.293
SAN FRANCISCO	1503.313	2221.684	3724.997
SAN JOAQUIN	2818.117	2100.808	4918.925
SAN LUIS OBISPO	1557.005	767.077	2324.082
SAN MATEO	4271.216	2162.862	6434.078
SANTA BARBARA	2016.736	1165.377	3182.114
SANTA CLARA	6202.178	7372.168	13574.347
SANTA CRUZ	964.584	901.866	1866.449
SHASTA	1076.579	674.745	1751.324
SIERRA	57.836	28.706	86.542
SISKIYOU	579.600	279.885	859.485
SOLANO	2612.947	1109.651	3722.597
SONOMA	1752.949	1604.533	3357.483
STANISLAUS	1373.184	2049.389	3422.573
SUTTER	370.762	303.935	674.697
TEHAMA	553.252	235.268	788.520
TRINITY	113.962	31.776	145.738
TULARE	1341.240	1462.093	2803.333
TUOLUMNE	293.840	210.761	504.601
VENTURA	3117.036	2664.815	5781.852
YOLO	1063.659	563.462	1627.121
YUBA	246.729	295.853	542.581
TOTAL	146715.016	130252.969	276968.000

1995 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	11983.327	8012.467	19995.793
ALPINE	67.642	13.290	80.931
AMADOR	395.368	135.431	530.799
BUTTE	978.344	1579.962	2558.308
CALAVERAS	402.679	185.845	588.524
COLUSA	632.456	175.687	808.143
CONTRA COSTA	5864.144	5578.585	11442.729
DEL NORTE	253.271	109.152	362.423
EL DORADO	1291.684	1063.540	2355.223
FRESNO	3780.859	5951.052	9731.909
GLENN	519.203	193.987	713.190
HUMBOLDT	1105.153	712.304	1817.455
IMPERIAL	1416.722	808.676	2225.398
INYO	600.569	116.956	717.524
KERN	5943.022	3806.800	9749.823
KINGS	832.145	724.565	1556.710
LAKE	480.183	256.959	737.142
LASSEN	504.908	391.697	896.604
LOS ANGELES	56452.398	62628.422	119080.820
MADERA	1252.739	555.283	1808.022
MARIN	2307.461	1807.870	4115.331
MARISPOSA	201.741	184.207	385.948
MENDOCINO	1041.193	675.319	1716.512
MERCED	2171.298	1191.594	3362.892
MODOC	148.938	109.580	258.519
MONO	404.481	43.021	447.501
MONTEREY	2903.112	2287.501	5190.612
NAPA	863.032	601.211	1464.241
NEVADA	1021.171	553.745	1574.915
ORANGE	18063.814	19160.217	37224.032
PLACER	2397.906	1672.884	4070.791
PLUMAS	290.952	175.880	466.832
RIVERSIDE	11878.489	7931.639	19810.127
SACRAMENTO	6748.243	8207.661	14955.906
SAN BENITO	460.002	191.512	651.514
SAN BERNARDINO	15637.520	9614.121	25251.641
SAN DIEGO	20283.344	16818.945	37102.288
SAN FRANCISCO	2419.348	3575.454	5994.802
SAN JOAQUIN	4535.320	3380.923	7916.242
SAN LUIS OBISPO	2505.757	1234.491	3740.247
SAN MATEO	6873.856	3480.789	10354.645
SANTA BARBARA	3245.622	1875.492	5121.116
SANTA CLARA	9981.438	11864.354	21845.794
SANTA CRUZ	1552.348	1451.413	3003.759
SHASTA	1732.586	1085.897	2818.483
SIERRA	93.078	46.198	139.276
SISKIYOU	932.776	450.431	1383.207
SOLANO	4205.130	1785.810	5990.939
SONOMA	2821.098	2582.246	5403.345
STANISLAUS	2209.926	3298.172	5508.097
SUTTER	596.684	489.136	1085.820
TEHAMA	890.373	378.627	1269.000
TRINITY	183.404	51.139	234.543
TULARE	2158.517	2353.010	4511.527
TUOLUMNE	472.890	339.187	812.077
VENTURA	5016.383	4288.604	9304.989
YOLO	1711.793	906.804	2618.597
YUBA	397.072	476.129	873.199
TOTAL	236114.938	209621.828	445736.791

2000 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	8532.969	5493.258	14026.227
ALPINE	44.501	12.415	56.916
AMADOR	261.405	106.558	367.963
BUTTE	642.613	1357.711	2000.324
CALAVERAS	243.504	142.448	385.952
COLUSA	406.608	116.190	522.798
CONTRA COSTA	4220.383	3731.079	7951.462
DEL NORTE	153.903	87.401	241.304
EL DORADO	845.416	772.738	1618.154
FRESNO	2709.153	4116.970	6826.123
GLENN	308.507	130.725	439.231
HUMBOLDT	702.814	509.308	1212.122
IMPERIAL	1105.722	537.656	1643.377
INYO	404.908	115.702	520.609
KERN	4192.583	2823.800	7016.383
KINGS	649.413	459.336	1108.749
LAKE	308.406	184.271	492.677
LASSEN	295.605	284.158	579.764
LOS ANGELES	37403.344	41684.074	79087.418
MADERA	899.117	421.758	1320.876
MARIN	1552.530	1225.938	2778.469
MARIPOSA	122.002	139.324	261.326
MENDOCINO	689.414	449.632	1139.046
MERCED	1485.529	729.629	2215.158
MODOC	80.501	108.529	189.030
MONO	237.404	56.436	293.840
MONTEREY	2038.840	1544.548	3583.388
NAPA	675.513	473.885	1149.399
NEVADA	699.614	385.486	1085.100
ORANGE	12808.053	13008.400	25816.453
PLACER	1721.234	1188.512	2909.746
PLUMAS	176.203	178.069	354.272
RIVERSIDE	8394.666	5709.839	14104.505
SACRAMENTO	4959.698	5443.629	10403.327
SAN BENITO	347.107	185.868	532.974
SAN BERNARDINO	10485.908	6687.920	17173.828
SAN DIEGO	14770.092	11364.967	26135.058
SAN FRANCISCO	1562.730	2288.854	3851.584
SAN JOAQUIN	3116.562	2354.441	5471.002
SAN LUIS OBISPO	1734.235	896.256	2630.490
SAN MATEO	4910.597	2475.690	7386.287
SANTA BARBARA	2221.044	1345.261	3566.305
SANTA CLARA	7670.652	7736.795	15407.447
SANTA CRUZ	1011.820	1025.191	2037.011
SHASTA	1070.022	829.130	1899.152
SIERRA	65.801	44.724	110.525
SISKIYOU	579.412	301.579	880.991
SOLANO	2929.859	1337.424	4267.283
SONOMA	1898.838	1764.106	3662.944
STANISLAUS	1389.727	1995.865	3385.592
SUTTER	393.708	350.794	744.501
TEHAMA	560.411	273.792	834.203
TRINITY	110.602	72.922	183.525
TULARE	1510.930	1566.262	3077.192
TUOLUMNE	300.706	266.179	566.886
VENTURA	3482.669	2939.111	6421.780
YOLO	1182.924	657.314	1840.238
YUBA	278.605	324.130	602.736
TOTAL	163557.000	142814.000	306371.000

2000 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	13732.482	8840.542	22573.024
ALPINE	71.617	19.980	91.597
AMADOR	420.691	171.488	592.179
BUTTE	1034.185	2185.024	3219.209
CALAVERAS	391.882	229.248	621.130
COLUSA	654.372	186.990	841.362
CONTRA COSTA	6792.048	6004.590	12796.638
DEL NORTE	247.683	140.658	388.341
EL DORADO	1360.565	1243.601	2604.166
FRESNO	4359.959	6625.621	10985.580
GLENN	496.494	210.382	706.874
HUMBOLDT	1131.069	819.652	1950.721
IMPERIAL	1779.487	865.273	2644.759
INYO	651.636	186.204	837.839
KERN	6747.308	4544.466	11291.774
KINGS	1045.129	739.230	1784.359
LAKE	496.331	296.555	792.887
LASSEN	475.730	457.308	933.040
LOS ANGELES	60194.848	67084.016	127278.862
MADERA	1446.989	678.754	2125.744
MARIN	2498.555	1972.956	4471.512
MARIPOSA	196.343	224.220	420.563
MENDOCINO	1109.504	723.613	1833.117
MERCED	2390.727	1174.224	3564.951
MODOC	129.554	174.660	304.214
MONO	382.065	90.825	472.890
MONTEREY	3281.195	2485.709	5766.904
NAPA	1087.133	762.644	1849.778
NEVADA	1125.920	620.380	1746.299
ORANGE	20612.563	20934.990	41547.554
PLACER	2770.058	1912.725	4682.782
PLUMAS	283.571	286.574	570.146
RIVERSIDE	13509.905	9189.095	22699.001
SACRAMENTO	7981.860	8760.672	16742.532
SAN BENITO	558.615	299.126	857.739
SAN BERNARDINO	16875.434	10763.164	27638.597
SAN DIEGO	23770.158	18290.141	42060.299
SAN FRANCISCO	2514.970	3683.553	6198.524
SAN JOAQUIN	5015.621	3789.105	8804.724
SAN LUIS OBISPO	2790.981	1442.384	4233.363
SAN MATEO	7902.840	3984.237	11887.077
SANTA BARBARA	3574.424	2164.988	5739.412
SANTA CLARA	12344.718	12451.165	24795.882
SANTA CRUZ	1628.366	1649.885	3278.251
SHASTA	1722.033	1334.355	3056.389
SIERRA	105.896	71.976	177.873
SISKIYOU	932.473	485.344	1417.818
SOLANO	4715.151	2152.375	6867.526
SONOMA	3055.884	2839.053	5894.937
STANISLAUS	2236.549	3212.033	5448.582
SUTTER	633.612	564.548	1198.158
TEHAMA	901.894	440.626	1342.520
TRINITY	177.997	117.357	295.355
TULARE	2431.606	2520.654	4952.260
TUOLUMNE	483.939	428.374	912.315
VENTURA	5604.813	4730.041	10334.853
YOLO	1903.732	1057.844	2961.576
YUBA	448.371	521.637	970.010
TOTAL	263219.469	229836.859	493056.332

2005 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	9349.820	6044.292	15394.113
ALPINE	49.933	13.989	63.922
AMADOR	281.861	115.377	397.238
BUTTE	738.320	1566.444	2304.764
CALAVERAS	278.237	163.447	441.685
COLUSA	497.795	142.842	640.637
CONTRA COSTA	4599.371	4083.132	8682.502
DEL NORTE	172.062	98.122	270.184
EL DORADO	976.542	896.324	1872.865
FRESNO	3070.026	4684.882	7754.908
GLENN	364.722	155.191	519.913
HUMBOLDT	750.522	546.155	1296.677
IMPERIAL	1352.291	660.299	2012.590
INYO	437.573	125.559	563.132
KERN	4907.277	3318.984	8226.261
KINGS	747.203	530.714	1277.917
LAKE	357.112	214.265	571.377
LASSEN	332.435	320.898	653.332
LOS ANGELES	40858.477	45725.059	86583.531
MADERA	1074.998	506.369	1581.367
MARIN	1660.082	1316.347	2976.429
MARIPOSA	137.334	157.489	294.823
MENDOCINO	769.692	504.088	1273.780
MERCED	1712.664	844.706	2557.370
MODOC	87.879	118.971	206.851
MONO	264.101	63.045	327.146
MONTEREY	2340.129	1780.207	4120.336
NAPA	745.008	524.822	1269.830
NEVADA	788.238	436.134	1224.372
ORANGE	14044.254	14323.587	28367.840
PLACER	1999.834	1386.660	3386.494
PLUMAS	188.386	191.177	379.563
RIVERSIDE	10063.952	6873.871	16937.822
SACRAMENTO	5585.292	6155.899	11741.191
SAN BENITO	403.812	217.136	620.948
SAN BERNARDINO	12298.284	7876.656	20174.939
SAN DIEGO	16578.969	12810.168	29389.137
SAN FRANCISCO	1611.210	2369.729	3980.939
SAN JOAQUIN	3606.389	2735.879	6342.269
SAN LUIS OBISPO	2003.714	1039.854	3043.568
SAN MATEO	5307.552	2687.005	7994.558
SANTA BARBARA	2512.706	1528.281	4040.987
SANTA CLARA	8449.864	8558.366	17008.230
SANTA CRUZ	1151.191	1171.282	2322.473
SHASTA	1200.986	934.502	2135.488
SIERRA	69.078	47.147	116.225
SISKIYOU	631.364	329.994	961.358
SOLANO	3303.198	1514.152	4817.350
SONOMA	2123.432	1981.013	4104.445
STANISLAUS	1610.478	2322.570	3933.048
SUTTER	446.952	399.899	846.851
TEHAMA	642.708	315.312	958.020
TRINITY	119.302	78.987	198.289
TULARE	1747.547	1819.120	3566.667
TUOLUMNE	337.860	300.317	638.177
VENTURA	3897.120	3302.630	7199.751
YOLO	1336.639	745.835	2082.474
YUBA	312.223	364.760	676.983
TOTAL	183286.000	160039.906	343325.938

2005 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	15047.077	9727.345	24774.423
ALPINE	80.359	22.513	102.872
AMADOR	453.611	185.681	639.293
BUTTE	1188.211	2520.947	3709.158
CALAVERAS	447.779	263.042	710.823
COLUSA	801.123	229.882	1031.005
CONTRA COSTA	7401.970	6571.164	13973.133
DEL NORTE	276.907	157.912	434.819
EL DORADO	1571.592	1442.494	3014.084
FRESNO	4940.728	7539.587	12480.315
GLENN	586.963	249.756	836.719
HUMBOLDT	1207.848	878.951	2086.799
IMPERIAL	2176.302	1062.648	3238.950
INYO	704.206	202.068	906.273
KERN	7897.497	5341.387	13238.884
KINGS	1202.507	854.101	2056.608
LAKE	574.716	344.826	919.542
LASSEN	535.002	516.435	1051.436
LOS ANGELES	65755.344	73587.352	139342.687
MADERA	1730.042	814.922	2544.964
MARIN	2671.643	2118.455	4790.098
MARIPOSA	221.018	253.454	474.472
MENDOCINO	1238.699	811.251	2049.950
MERCED	2756.266	1359.422	4115.688
MODOC	141.428	191.465	332.894
MONO	425.029	101.461	526.490
MONTEREY	3766.073	2864.966	6631.038
NAPA	1198.974	844.619	2043.593
NEVADA	1268.546	701.890	1970.436
ORANGE	22602.035	23051.578	45653.613
PLACER	3218.421	2231.613	5450.034
PLUMAS	303.178	307.670	610.847
RIVERSIDE	16196.360	11062.423	27258.782
SACRAMENTO	8988.656	9906.959	18895.615
SAN BENITO	649.872	349.447	999.319
SAN BERNARDINO	19792.170	12676.249	32468.417
SAN DIEGO	26681.264	20615.967	47297.231
SAN FRANCISCO	2592.991	3813.709	6406.700
SAN JOAQUIN	5803.920	4402.971	10206.893
SAN LUIS OBISPO	3224.665	1673.483	4898.148
SAN MATEO	8541.677	4324.315	12865.994
SANTA BARBARA	4043.808	2459.530	6503.338
SANTA CLARA	13598.738	13773.355	27372.093
SANTA CRUZ	1852.662	1884.996	3737.658
SHASTA	1932.800	1503.935	3436.735
SIERRA	111.170	75.876	187.046
SISKIYOU	1016.082	531.074	1547.156
SOLANO	5315.982	2436.792	7752.773
SONOMA	3417.333	3188.131	6605.464
STANISLAUS	2591.813	3737.814	6329.627
SUTTER	719.299	643.575	1362.875
TEHAMA	1034.338	507.445	1541.784
TRINITY	191.998	127.117	319.115
TULARE	2812.404	2927.590	5739.994
TUOLUMNE	543.733	483.313	1027.046
VENTURA	6271.807	5315.068	11586.876
YOLO	2151.112	1200.305	3351.417
YUBA	502.474	587.024	1089.499
TOTAL	294970.219	257559.266	552529.540

2010 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	10240.759	6648.786	16889.545
ALPINE	56.007	15.758	71.765
AMADOR	303.796	124.892	428.688
BUTTE	847.941	1806.773	2654.714
CALAVERAS	317.798	187.491	505.289
COLUSA	609.187	175.559	784.746
CONTRA COSTA	5010.381	4467.183	9477.563
DEL NORTE	192.287	110.128	302.415
EL DORADO	1127.553	1039.391	2166.944
FRESNO	3477.574	5329.678	8807.253
GLENN	431.006	184.186	615.193
HUMBOLDT	801.148	585.508	1386.656
IMPERIAL	1653.179	810.697	2463.876
INYO	472.683	136.218	608.901
KERN	5741.497	3899.939	9641.436
KINGS	859.374	613.016	1472.391
LAKE	413.344	249.073	662.417
LASSEN	373.703	362.289	735.991
LOS ANGELES	44614.875	50144.090	94758.969
MADERA	1284.768	607.788	1892.556
MARIN	1774.373	1413.038	3187.411
MARIPOSA	154.531	177.974	332.505
MENDOCINO	858.973	564.985	1423.959
MERCED	1973.736	977.665	2951.401
MODOC	95.895	130.383	226.278
MONO	293.683	70.409	364.092
MONTEREY	2684.863	2051.260	4736.124
NAPA	821.322	581.076	1402.399
NEVADA	887.733	493.302	1381.034
ORANGE	15393.590	15767.435	31161.025
PLACER	2322.597	1617.402	3939.999
PLUMAS	201.330	205.194	406.524
RIVERSIDE	12060.337	8272.946	20333.283
SACRAMENTO	6287.272	6959.464	13246.736
SAN BENITO	469.592	253.596	723.188
SAN BERNARDINO	14418.121	9274.147	23692.270
SAN DIEGO	18601.912	14435.203	33037.113
SAN FRANCISCO	1660.528	2452.792	4113.320
SAN JOAQUIN	4171.527	3178.246	7349.772
SAN LUIS OBISPO	2314.138	1206.129	3520.267
SAN MATEO	5734.294	2915.562	8649.856
SANTA BARBARA	2841.527	1735.727	4577.254
SANTA CLARA	9304.498	9464.596	18769.094
SANTA CRUZ	1309.234	1337.825	2647.059
SHASTA	1347.438	1052.978	2400.416
SIERRA	72.488	49.689	122.177
SISKIYOU	687.698	360.987	1048.685
SOLANO	3722.616	1713.764	5436.381
SONOMA	2373.638	2223.984	4597.622
STANISLAUS	1865.545	2702.016	4567.561
SUTTER	507.192	455.754	962.946
TEHAMA	736.795	363.029	1099.824
TRINITY	128.635	85.533	214.168
TULARE	2020.409	2112.222	4132.631
TUOLUMNE	379.451	338.741	718.193
VENTURA	4359.144	3710.098	8069.242
YOLO	1509.723	846.046	2355.769
YUBA	349.757	410.371	760.128
TOTAL	205525.000	179460.016	384985.031

2010 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	16480.904	10700.184	27181.088
ALPINE	90.135	25.360	115.495
AMADOR	488.912	200.994	689.906
BUTTE	1364.629	2907.719	4272.348
CALAVERAS	511.446	301.738	813.184
COLUSA	980.391	282.535	1262.926
CONTRA COSTA	8063.427	7189.234	15252.659
DEL NORTE	309.456	177.234	486.690
EL DORADO	1814.621	1672.738	3487.358
FRESNO	5596.613	8577.285	14173.900
GLENN	693.637	296.419	990.057
HUMBOLDT	1289.323	942.284	2231.607
IMPERIAL	2660.534	1304.690	3965.224
INYO	760.710	219.222	979.931
KERN	9240.044	6276.343	15516.387
KINGS	1383.028	986.554	2369.584
LAKE	665.213	400.844	1066.057
LASSEN	601.417	583.048	1184.463
LOS ANGELES	71800.680	80699.094	152499.779
MADERA	2067.634	978.140	3045.774
MARIN	2855.577	2274.064	5129.641
MARIPOSA	248.694	286.421	535.115
MENDOCINO	1382.383	909.255	2291.640
MERCED	3176.420	1573.399	4749.820
MODOC	154.328	209.831	364.159
MONO	472.637	113.312	585.949
MONTEREY	4320.868	3301.183	7622.053
NAPA	1321.790	935.151	2256.942
NEVADA	1428.668	793.893	2222.559
ORANGE	24773.582	25375.227	50148.809
PLACER	3737.858	2602.956	6340.814
PLUMAS	324.009	330.228	654.237
RIVERSIDE	19409.230	13314.016	32723.247
SACRAMENTO	10118.384	11200.172	21318.555
SAN BENITO	755.735	408.123	1163.858
SAN BERNARDINO	23203.717	14925.293	38129.013
SAN DIEGO	29936.875	23231.207	53168.080
SAN FRANCISCO	2672.361	3947.386	6619.747
SAN JOAQUIN	6713.422	5114.891	11828.312
SAN LUIS OBISPO	3724.244	1941.076	5665.321
SAN MATEO	9228.452	4692.142	13920.594
SANTA BARBARA	4572.995	2793.382	7366.376
SANTA CLARA	14974.138	15231.791	30205.929
SANTA CRUZ	2107.008	2153.021	4260.029
SHASTA	2168.491	1694.604	3863.095
SIERRA	116.658	79.967	196.625
SISKIYOU	1106.743	580.952	1687.695
SOLANO	5990.970	2758.036	8749.007
SONOMA	3820.000	3579.155	7399.155
STANISLAUS	3002.304	4348.473	7350.777
SUTTER	816.246	733.465	1549.711
TEHAMA	1185.757	584.239	1769.995
TRINITY	207.018	137.652	344.670
TULARE	3251.533	3399.292	6650.825
TUOLUMNE	610.667	545.151	1155.820
VENTURA	7015.362	5970.824	12986.186
YOLO	2429.664	1361.579	3791.243
YUBA	562.879	660.428	1223.307
TOTAL	330760.438	288812.906	619573.352

2015 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	11009.580	7179.457	18189.037
ALPINE	61.659	17.425	79.084
AMADOR	321.395	132.709	454.104
BUTTE	955.864	2045.714	3001.578
CALAVERAS	356.283	211.124	567.407
COLUSA	731.746	211.809	943.555
CONTRA COSTA	5357.385	4797.627	10155.012
DEL NORTE	210.923	121.335	332.258
EL DORADO	1277.888	1183.165	2461.053
FRESNO	3866.522	5951.901	9818.424
GLENN	499.937	214.585	714.522
HUMBOLDT	839.404	616.172	1455.577
IMPERIAL	1983.716	977.078	2960.794
INYO	501.187	145.069	646.256
KERN	6593.554	4498.449	11092.003
KINGS	970.143	695.082	1665.225
LAKE	469.601	284.220	753.821
LASSEN	412.340	401.509	813.849
LOS ANGELES	47817.508	53980.598	101798.102
MADERA	1507.133	716.126	2223.259
MARIN	1861.530	1488.982	3350.512
MARIPOSA	170.673	197.431	368.103
MENDOCINO	940.919	621.613	1562.532
MERCED	2232.624	1110.779	3343.403
MODOC	102.711	140.266	242.977
MONO	320.550	77.189	397.739
MONTEREY	3023.531	2320.190	5343.721
NAPA	888.743	631.548	1520.291
NEVADA	981.333	547.719	1529.052
ORANGE	16561.168	17038.162	33599.332
PLACER	2647.667	1851.902	4499.570
PLUMAS	211.193	216.195	427.388
RIVERSIDE	14186.005	9773.982	23959.988
SACRAMENTO	6946.857	7723.473	14670.330
SAN BENITO	536.009	290.740	826.749
SAN BERNARDINO	16591.383	10719.107	27310.490
SAN DIEGO	20486.482	15967.737	36454.219
SAN FRANCISCO	1679.771	2492.156	4171.926
SAN JOAQUIN	4736.171	3624.352	8360.523
SAN LUIS OBISPO	2623.328	1373.307	3996.635
SAN MATEO	6081.006	3105.478	9186.484
SANTA BARBARA	3154.072	1935.139	5089.211
SANTA CLARA	10056.478	10274.619	20331.096
SANTA CRUZ	1461.494	1499.994	2961.488
SHASTA	1483.848	1164.690	2648.539
SIERRA	74.664	51.405	126.069
SISKIYOU	735.234	387.641	1122.875
SOLANO	4117.862	1904.080	6021.942
SONOMA	2604.356	2450.915	5055.271
STANISLAUS	2121.127	3085.740	5206.867
SUTTER	564.929	509.874	1074.803
TEHAMA	829.067	410.294	1239.361
TRINITY	136.137	90.921	227.058
TULARE	2292.764	2407.522	4700.286
TUOLUMNE	418.298	375.067	793.365
VENTURA	4785.952	4091.317	8877.270
YOLO	1673.748	942.101	2615.849
YUBA	384.571	453.209	837.780
TOTAL	226448.047	197728.000	424176.125

2015 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	17718.201	11554.216	29272.418
ALPINE	99.231	28.043	127.273
AMADOR	517.235	213.574	730.810
BUTTE	1538.314	3292.258	4830.572
CALAVERAS	573.382	339.771	913.153
COLUSA	1177.631	340.874	1518.505
CONTRA COSTA	8621.875	7721.032	16342.908
DEL NORTE	339.448	195.270	534.717
EL DORADO	2056.561	1904.120	3960.681
FRESNO	6222.564	9578.656	15801.222
GLENN	804.571	345.341	1149.912
HUMBOLDT	1350.890	991.633	2342.524
IMPERIAL	3192.481	1572.455	4764.936
INYO	806.582	233.466	1040.048
KERN	10611.297	7239.552	17850.849
KINGS	1561.294	1118.626	2679.920
LAKE	755.750	457.408	1213.157
LASSEN	663.597	646.166	1309.763
LOS ANGELES	76954.820	86873.352	163828.165
MADERA	2425.495	1152.493	3577.989
MARIN	2995.842	2396.284	5392.126
MARIPOSA	274.672	317.734	592.404
MENDOCINO	1514.262	1000.389	2514.652
MERCED	3593.060	1787.625	5380.686
MODOC	165.297	225.736	391.034
MONO	515.875	124.224	640.099
MONTEREY	4865.901	3733.984	8599.885
NAPA	1430.293	1016.378	2446.671
NEVADA	1579.302	881.468	2460.771
ORANGE	26652.617	27420.264	54072.884
PLACER	4261.007	2980.347	7241.356
PLUMAS	339.882	347.932	687.814
RIVERSIDE	22830.162	15729.699	38559.863
SACRAMENTO	11179.883	12429.725	23609.608
SAN BENITO	862.623	467.901	1330.524
SAN BERNARDINO	26701.242	17250.730	43951.973
SAN DIEGO	32969.797	25697.582	58667.379
SAN FRANCISCO	2703.329	4010.736	6714.064
SAN JOAQUIN	7622.128	5832.829	13454.958
SAN LUIS OBISPO	4221.837	2210.123	6431.961
SAN MATEO	9786.431	4997.782	14784.213
SANTA BARBARA	5075.987	3114.304	8190.291
SANTA CLARA	16184.333	16535.396	32719.727
SANTA CRUZ	2352.047	2414.006	4766.053
SHASTA	2388.022	1874.387	4262.410
SIERRA	120.160	82.728	202.888
SISKIYOU	1183.244	623.848	1807.092
SOLANO	6627.057	3064.320	9691.376
SONOMA	4191.305	3944.365	8135.670
STANISLAUS	3413.623	4966.017	8379.640
SUTTER	909.165	820.563	1729.728
TEHAMA	1334.254	660.304	1994.558
TRINITY	219.091	146.323	365.414
TULARE	3689.846	3874.531	7564.377
TUOLUMNE	673.185	603.612	1276.797
VENTURA	7702.243	6584.336	14286.581
YOLO	2693.636	1516.165	4209.801
YUBA	618.907	729.369	1348.276
TOTAL	364432.813	318212.375	682645.304

2020 ANNUAL STATEWIDE VMT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	12018.135	7872.720	19890.855
ALPINE	68.926	19.567	88.493
AMADOR	345.242	143.203	488.445
BUTTE	1094.093	2352.177	3446.271
CALAVERAS	405.572	241.422	646.993
COLUSA	892.479	259.507	1151.985
CONTRA COSTA	5816.512	5232.426	11048.938
DEL NORTE	234.923	135.754	370.677
EL DORADO	1470.538	1367.716	2838.253
FRESNO	4365.081	6749.854	11114.935
GLENN	588.810	253.879	842.688
HUMBOLDT	893.013	658.500	1551.512
IMPERIAL	2416.945	1195.868	3612.813
INYO	539.581	156.891	696.472
KERN	7688.500	5269.286	12957.786
KINGS	1112.030	800.357	1912.387
LAKE	541.719	329.357	871.076
LASSEN	461.970	451.876	913.846
LOS ANGELES	52038.156	59011.883	111050.039
MADERA	1795.172	856.862	2652.035
MARIN	1983.000	1593.342	3576.343
MARIPOSA	191.399	222.411	413.810
MENDOCINO	1046.532	694.524	1741.056
MERCED	2564.306	1281.589	3845.895
MODOC	111.703	153.238	264.941
MONO	355.256	85.935	441.191
MONTEREY	3457.277	2665.080	6122.357
NAPA	976.487	697.050	1673.537
NEVADA	1101.485	617.571	1719.056
ORANGE	18091.297	18696.844	36788.141
PLACER	3064.649	2153.289	5217.938
PLUMAS	224.945	231.318	456.264
RIVERSIDE	16942.928	11726.455	28669.383
SACRAMENTO	7793.673	8704.289	16497.963
SAN BENITO	621.228	338.493	959.721
SAN BERNARDINO	19385.822	12581.345	31967.168
SAN DIEGO	22908.938	17936.914	40845.852
SAN FRANCISCO	1725.367	2571.423	4296.790
SAN JOAQUIN	5459.934	4197.176	9657.110
SAN LUIS OBISPO	3019.559	1587.909	4607.468
SAN MATEO	6547.848	3359.065	9906.913
SANTA BARBARA	3554.833	2190.920	5745.753
SANTA CLARA	11036.378	11326.956	22363.334
SANTA CRUZ	1656.550	1707.905	3364.455
SHASTA	1659.197	1308.235	2967.431
SIERRA	78.087	54.006	132.093
SISKIYOU	798.143	422.720	1220.863
SOLANO	4625.120	2148.341	6773.460
SONOMA	2901.443	2742.892	5644.335
STANISLAUS	2448.810	3578.612	6027.422
SUTTER	638.915	579.267	1218.183
TEHAMA	947.240	470.904	1418.144
TRINITY	146.294	98.147	244.441
TULARE	2641.844	2786.666	5428.509
TUOLUMNE	468.213	421.728	889.941
VENTURA	5335.353	4581.681	9917.034
YOLO	1884.130	1065.331	2949.461
YUBA	429.354	508.281	937.635
TOTAL	253610.938	221446.938	475057.938

2020 ANNUAL STATEWIDE VKT DISTRIBUTION BY COUNTY (MILLIONS)

COUNTY	SHS	OTHER	TOTAL
ALAMEDA	19341.314	12669.915	32011.228
ALPINE	110.926	31.490	142.416
AMADOR	555.613	230.463	786.076
BUTTE	1760.772	3785.462	5546.236
CALAVERAS	652.705	388.531	1041.234
COLUSA	1436.306	417.636	1853.940
CONTRA COSTA	9360.769	8420.773	17781.542
DEL NORTE	378.072	218.475	596.547
EL DORADO	2366.602	2201.125	4567.725
FRESNO	7024.917	10862.837	17887.754
GLENN	947.598	408.579	1356.175
HUMBOLDT	1437.165	1059.753	2496.917
IMPERIAL	3889.696	1924.563	5814.259
INYO	868.371	252.492	1120.863
KERN	12373.441	8480.094	20853.535
KINGS	1789.639	1288.050	3077.689
LAKE	871.812	530.049	1401.861
LASSEN	743.469	727.224	1470.693
LOS ANGELES	83747.297	94970.422	178717.715
MADERA	2889.049	1378.986	4268.037
MARIN	3191.329	2564.235	5755.566
MARIPOSA	308.027	357.936	665.963
MENDOCINO	1684.230	1117.728	2801.958
MERCED	4126.851	2062.518	6189.368
MODOC	179.769	246.613	426.381
MONO	571.729	138.299	710.028
MONTEREY	5563.948	4289.031	9852.979
NAPA	1571.504	1121.793	2693.297
NEVADA	1772.668	993.884	2766.552
ORANGE	29115.121	30089.654	59204.774
PLACER	4932.075	3465.383	8397.457
PLUMAS	362.014	372.270	734.286
RIVERSIDE	27267.000	18871.900	46138.900
SACRAMENTO	12542.701	14008.195	26550.898
SAN BENITO	999.770	544.752	1544.521
SAN BERNARDINO	31198.457	20247.713	51446.170
SAN DIEGO	36868.363	28866.664	65735.027
SAN FRANCISCO	2776.709	4138.304	6915.013
SAN JOAQUIN	8786.912	6754.700	15541.612
SAN LUIS OBISPO	4859.509	2555.492	7415.001
SAN MATEO	10537.740	5405.891	15943.631
SANTA BARBARA	5720.949	3525.944	9246.893
SANTA CLARA	17761.328	18228.969	35990.298
SANTA CRUZ	2665.959	2748.607	5414.565
SHASTA	2670.219	2105.400	4775.617
SIERRA	125.669	86.914	212.583
SISKIYOU	1284.487	680.302	1964.789
SOLANO	7443.409	3457.420	10900.827
SONOMA	4669.420	4414.257	9083.677
STANISLAUS	3940.978	5759.218	9700.195
SUTTER	1028.234	932.240	1960.476
TEHAMA	1524.435	757.847	2282.282
TRINITY	235.437	157.952	393.390
TULARE	4251.636	4484.704	8736.338
TUOLUMNE	753.516	678.705	1432.221
VENTURA	8586.418	7373.501	15959.919
YOLO	3032.213	1714.484	4746.697
YUBA	690.978	817.999	1508.977
TOTAL	408147.250	356384.313	764531.645

APPENDIX C

CALIFORNIA VEHICLE FUEL CONSUMPTION BY COUNTY AND FUEL TYPE

1995 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	567.313	78.239	645.552
ALPINE	2.162	0.289	2.450
AMADOR	15.290	2.414	17.705
BUTTE	71.271	10.898	82.169
CALAVERAS	16.377	2.018	18.395
COLUSA	21.142	10.991	32.133
CONTRA COSTA	327.205	37.697	364.902
DEL NORTE	9.941	1.900	11.842
EL DORADO	66.902	7.834	74.736
FRESNO	273.532	59.844	333.376
GLENN	18.324	9.597	27.921
HUMBOLDT	52.842	9.525	62.367
IMPERIAL	63.581	19.557	83.137
INYO	21.197	4.293	25.490
KERN	269.325	101.270	370.595
KINGS	42.782	12.264	55.046
LAKE	20.964	2.679	23.643
LASSEN	25.602	6.000	31.602
LOS ANGELES	3507.030	472.980	3980.011
MADERA	51.944	16.529	68.472
MARIN	121.026	11.322	132.348
MARISPOSA	11.018	0.909	11.927
MENDOCINO	48.815	7.713	56.529
MERCED	94.719	34.059	128.778
MODOC	7.328	2.035	9.363
MONO	12.752	2.482	15.235
MONTEREY	151.091	27.608	178.698
NAPA	42.532	5.748	48.279
NEVADA	44.368	7.598	51.966
ORANGE	1061.933	133.375	1195.308
PLACER	114.180	19.018	133.198
PLUMAS	13.130	2.888	16.018
RIVERSIDE	557.851	139.249	697.100
SACRAMENTO	428.933	66.411	495.344
SAN BENITO	18.717	4.873	23.591
SAN BERNARDINO	714.652	177.707	892.359
SAN DIEGO	1070.276	124.792	1195.068
SAN FRANCISCO	172.838	14.092	186.930
SAN JOAQUIN	222.537	67.002	289.539
SAN LUIS OBISPO	105.364	18.408	123.772
SAN MATEO	305.807	26.189	331.996
SANTA BARBARA	145.217	22.769	167.985
SANTA CLARA	658.540	67.197	725.737
SANTA CRUZ	83.801	8.286	92.088
SHASTA	75.620	21.871	97.491
SIERRA	4.038	1.269	5.308
SISKIYOU	34.361	18.660	53.021
SOLANO	172.492	28.194	200.686
SONOMA	153.252	19.926	173.178
STANISLAUS	154.715	34.255	188.969
SUTTER	31.307	6.032	37.339
TEHAMA	33.137	13.046	46.183
TRINITY	6.602	2.383	8.985
TULARE	125.786	39.598	165.384
TUOLUMNE	22.443	2.841	25.284
VENTURA	270.426	35.839	306.265
YOLO	76.526	19.521	96.046
YUBA	25.401	3.527	28.929
TOTAL	12838.255	2105.512	14943.767

VFC in Million Gallons

2000 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	640.247	108.166	748.412
ALPINE	2.435	0.838	3.273
AMADOR	16.129	4.672	20.801
BUTTE	97.026	18.158	115.183
CALAVERAS	17.334	4.281	21.615
COLUSA	21.759	12.002	33.761
CONTRA COSTA	369.443	61.890	431.333
DEL NORTE	10.726	3.321	14.047
EL DORADO	74.724	16.726	91.450
FRESNO	324.570	69.048	393.619
GLENN	18.793	8.990	27.783
HUMBOLDT	55.076	13.607	68.684
IMPERIAL	71.729	27.470	99.199
INYO	22.327	7.428	29.755
KERN	316.384	86.329	402.713
KINGS	49.540	17.728	67.268
LAKE	22.059	6.115	28.174
LASSEN	26.647	7.386	34.033
LOS ANGELES	3734.399	539.361	4273.760
MADERA	58.602	14.804	73.407
MARIN	128.355	21.013	149.368
MARIPOSA	12.206	2.817	15.022
MENDOCINO	51.346	13.485	64.830
MERCED	97.974	28.548	126.522
MODOC	8.861	2.382	11.243
MONO	12.487	4.334	16.821
MONTEREY	164.342	32.640	196.982
NAPA	52.607	9.629	62.236
NEVADA	47.628	18.538	66.166
ORANGE	1213.143	172.638	1385.781
PLACER	131.407	35.703	167.110
PLUMAS	16.408	3.979	20.387
RIVERSIDE	640.961	141.965	782.926
SACRAMENTO	488.918	83.922	572.840
SAN BENITO	23.791	6.126	29.917
SAN BERNARDINO	774.066	197.284	971.350
SAN DIEGO	1203.943	208.791	1412.734
SAN FRANCISCO	184.602	26.409	211.011
SAN JOAQUIN	249.521	59.108	308.629
SAN LUIS OBISPO	117.804	26.059	143.863
SAN MATEO	333.038	54.750	387.788
SANTA BARBARA	161.721	31.068	192.789
SANTA CLARA	722.145	113.889	836.034
SANTA CRUZ	95.477	15.211	110.688
SHASTA	85.995	25.647	111.642
SIERRA	4.941	1.669	6.610
SISKIYOU	38.042	18.523	56.565
SOLANO	190.010	41.281	231.291
SONOMA	170.325	30.890	201.215
STANISLAUS	160.655	33.104	193.759
SUTTER	34.362	7.473	41.835
TEHAMA	36.187	15.543	51.730
TRINITY	8.238	2.444	10.683
TULARE	143.379	30.108	173.487
TUOLUMNE	26.136	5.817	31.953
VENTURA	297.496	50.563	348.059
YOLO	81.704	25.315	107.019
YUBA	28.286	5.775	34.061
TOTAL	14188.456	2632.760	16821.217

VFC in Million Gallons

2005 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	699.069	111.856	810.926
ALPINE	2.723	0.891	3.613
AMADOR	17.333	4.769	22.102
BUTTE	111.224	19.727	130.951
CALAVERAS	19.743	4.629	24.372
COLUSA	26.577	13.937	40.513
CONTRA COSTA	401.333	63.668	465.000
DEL NORTE	11.957	3.517	15.473
EL DORADO	86.066	18.279	104.345
FRESNO	366.918	74.004	440.922
GLENN	22.165	10.079	32.244
HUMBOLDT	58.639	13.751	72.390
IMPERIAL	87.487	31.839	119.326
INYO	24.045	7.602	31.647
KERN	369.231	95.644	464.876
KINGS	56.860	19.332	76.192
LAKE	25.465	6.705	32.169
LASSEN	29.891	7.867	37.758
LOS ANGELES	4066.814	555.617	4622.431
MADERA	69.827	16.749	86.576
MARIN	136.789	21.204	157.994
MARIPOSA	13.704	2.999	16.703
MENDOCINO	57.151	14.250	71.401
MERCED	112.597	31.158	143.755
MODOC	9.652	2.463	12.115
MONO	13.842	4.567	18.409
MONTEREY	188.025	35.401	223.427
NAPA	57.824	10.030	67.854
NEVADA	53.525	19.796	73.321
ORANGE	1325.998	178.480	1504.479
PLACER	152.233	39.261	191.493
PLUMAS	17.496	4.026	21.522
RIVERSIDE	765.968	160.920	926.888
SACRAMENTO	548.965	89.240	638.204
SAN BENITO	27.587	6.745	34.332
SAN BERNARDINO	905.059	218.918	1123.978
SAN DIEGO	1346.919	221.253	1568.172
SAN FRANCISCO	189.794	25.681	215.474
SAN JOAQUIN	287.872	64.705	352.576
SAN LUIS OBISPO	135.636	28.468	164.104
SAN MATEO	358.595	55.826	414.421
SANTA BARBARA	182.325	33.201	215.526
SANTA CLARA	793.029	118.393	911.422
SANTA CRUZ	108.292	16.332	124.623
SHASTA	96.264	27.262	123.525
SIERRA	5.174	1.660	6.834
SISKIYOU	41.366	19.142	60.508
SOLANO	213.448	43.989	257.438
SONOMA	189.885	32.632	222.517
STANISLAUS	185.708	36.280	221.988
SUTTER	38.895	8.022	46.917
TEHAMA	41.399	16.899	58.299
TRINITY	8.861	2.497	11.358
TULARE	165.366	32.933	198.299
TUOLUMNE	29.280	6.182	35.462
VENTURA	331.823	53.418	385.241
YOLO	92.049	27.088	119.138
YUBA	31.613	6.120	37.733
TOTAL	15813.377	2797.901	18611.278

VFC in Million Gallons

2010 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	755.908	120.948	876.856
ALPINE	3.014	0.989	4.003
AMADOR	18.443	5.084	23.527
BUTTE	126.267	22.404	148.671
CALAVERAS	22.267	5.228	27.495
COLUSA	32.129	16.888	49.017
CONTRA COSTA	431.760	68.485	500.245
DEL NORTE	13.197	3.889	17.085
EL DORADO	98.163	20.873	119.036
FRESNO	410.762	82.886	493.649
GLENN	25.878	11.793	37.671
HUMBOLDT	61.821	14.517	76.338
IMPERIAL	105.642	38.526	144.168
INYO	25.638	8.124	33.762
KERN	426.675	110.680	537.355
KINGS	64.614	22.010	86.624
LAKE	29.108	7.677	36.785
LASSEN	33.201	8.752	41.952
LOS ANGELES	4386.175	598.752	4984.927
MADERA	82.385	19.795	102.180
MARIN	144.369	22.376	166.744
MARIPOSA	15.236	3.337	18.573
MENDOCINO	62.989	15.729	78.719
MERCED	128.127	35.517	163.644
MODOC	10.410	2.661	13.070
MONO	15.192	5.024	20.216
MONTEREY	213.032	40.131	253.163
NAPA	62.943	10.922	73.865
NEVADA	59.552	22.068	81.620
ORANGE	1435.397	193.037	1628.435
PLACER	174.628	45.095	219.722
PLUMAS	18.473	4.256	22.730
RIVERSIDE	906.430	190.601	1097.031
SACRAMENTO	610.428	99.219	709.646
SAN BENITO	31.676	7.758	39.434
SAN BERNARDINO	1047.853	253.767	1301.620
SAN DIEGO	1492.287	245.134	1737.421
SAN FRANCISCO	193.254	26.125	219.379
SAN JOAQUIN	328.873	74.003	402.876
SAN LUIS OBISPO	154.644	32.497	187.141
SAN MATEO	382.377	59.523	441.900
SANTA BARBARA	203.557	37.085	240.642
SANTA CLARA	862.467	128.714	991.181
SANTA CRUZ	121.641	18.338	139.979
SHASTA	106.698	30.263	136.961
SIERRA	5.364	1.724	7.088
SISKIYOU	44.525	20.647	65.172
SOLANO	237.438	48.983	286.421
SONOMA	209.642	36.039	245.681
STANISLAUS	212.584	41.554	254.139
SUTTER	43.597	8.999	52.596
TEHAMA	46.886	19.180	66.067
TRINITY	9.437	2.664	12.101
TULARE	188.871	37.646	226.517
TUOLUMNE	32.482	6.866	39.348
VENTURA	366.531	59.008	425.539
YOLO	102.680	30.270	132.950
YUBA	34.988	6.778	41.766
TOTAL	17470.609	3111.840	20582.449

VFC in Million Gallons

2015 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	807.823	128.576	936.398
ALPINE	3.297	1.076	4.373
AMADOR	19.389	5.320	24.710
BUTTE	141.669	25.007	166.677
CALAVERAS	24.815	5.798	30.614
COLUSA	38.357	20.065	58.421
CONTRA COSTA	459.075	72.429	531.504
DEL NORTE	14.391	4.220	18.611
EL DORADO	110.641	23.412	134.053
FRESNO	454.443	91.197	545.640
GLENN	29.840	13.533	43.373
HUMBOLDT	64.405	15.049	79.454
IMPERIAL	126.019	45.730	171.749
INYO	27.008	8.519	35.527
KERN	487.192	125.732	612.924
KINGS	72.540	24.585	97.125
LAKE	32.876	8.630	41.506
LASSEN	36.438	9.558	45.996
LOS ANGELES	4675.667	634.808	5310.475
MADERA	96.049	22.971	119.020
MARIN	150.591	23.217	173.808
MARIPOSA	16.740	3.646	20.386
MENDOCINO	68.600	17.046	85.646
MERCED	144.059	39.737	183.796
MODOC	11.094	2.821	13.915
MONO	16.472	5.423	21.894
MONTEREY	238.531	44.700	283.231
NAPA	67.712	11.689	79.401
NEVADA	65.453	24.133	89.586
ORANGE	1535.777	205.421	1741.198
PLACER	197.936	50.847	248.782
PLUMAS	19.275	4.419	23.694
RIVERSIDE	1060.010	221.743	1281.753
SACRAMENTO	670.850	108.450	779.300
SAN BENITO	35.939	8.761	44.700
SAN BERNARDINO	1198.795	288.818	1487.612
SAN DIEGO	1634.028	266.992	1901.020
SAN FRANCISCO	194.493	26.149	220.642
SAN JOAQUIN	371.276	83.117	454.393
SAN LUIS OBISPO	174.236	36.438	210.674
SAN MATEO	402.975	62.402	465.377
SANTA BARBARA	224.597	40.707	265.303
SANTA CLARA	927.063	137.619	1064.682
SANTA CRUZ	135.045	20.248	155.293
SHASTA	116.851	32.972	149.823
SIERRA	5.494	1.757	7.251
SISKIYOU	47.335	21.838	69.172
SOLANO	261.011	53.577	314.588
SONOMA	228.747	39.121	267.868
STANISLAUS	240.495	46.761	287.255
SUTTER	48.293	9.916	58.209
TEHAMA	52.452	21.351	73.803
TRINITY	9.931	2.790	12.720
TULARE	213.182	42.277	255.458
TUOLUMNE	35.610	7.489	43.099
VENTURA	400.144	64.084	464.227
YOLO	113.169	33.194	146.363
YUBA	38.269	7.375	45.644
TOTAL	19094.463	3405.256	22499.719

VFC in Million Gallons

2020 ANNUAL STATEWIDE VFC DISTRIBUTION BY COUNTY

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	881.080	139.890	1020.970
ALPINE	3.679	1.198	4.877
AMADOR	20.799	5.695	26.493
BUTTE	162.222	28.564	190.787
CALAVERAS	28.220	6.579	34.799
COLUSA	46.692	24.375	71.067
CONTRA COSTA	498.177	78.398	576.575
DEL NORTE	16.012	4.683	20.695
EL DORADO	127.259	26.867	154.126
FRESNO	513.085	102.668	615.753
GLENN	35.093	15.879	50.972
HUMBOLDT	68.466	15.960	84.426
IMPERIAL	153.344	55.513	208.857
INYO	29.025	9.136	38.161
KERN	567.614	146.105	713.720
KINGS	83.079	28.086	111.165
LAKE	37.887	9.923	47.810
LASSEN	40.805	10.677	51.482
LOS ANGELES	5087.282	688.986	5776.268
MADERA	114.263	27.270	141.532
MARIN	160.320	24.656	184.976
MARIPOSA	18.769	4.076	22.844
MENDOCINO	76.232	18.897	95.129
MERCED	165.260	45.474	210.734
MODOC	12.064	3.061	15.125
MONO	18.219	5.986	24.205
MONTEREY	272.566	50.946	323.512
NAPA	74.341	12.802	87.143
NEVADA	73.383	26.988	100.371
ORANGE	1677.142	223.785	1900.927
PLACER	228.922	58.647	287.568
PLUMAS	20.522	4.693	25.216
RIVERSIDE	1264.988	263.938	1528.926
SACRAMENTO	752.444	121.318	873.762
SAN BENITO	41.606	10.121	51.727
SAN BERNARDINO	1399.445	336.264	1735.710
SAN DIEGO	1826.069	297.608	2123.677
SAN FRANCISCO	199.789	26.794	226.582
SAN JOAQUIN	427.713	95.506	523.219
SAN LUIS OBISPO	200.327	41.801	242.129
SAN MATEO	433.429	66.957	500.386
SANTA BARBARA	252.900	45.722	298.622
SANTA CLARA	1017.057	150.607	1167.664
SANTA CRUZ	153.019	22.885	175.903
SHASTA	130.568	36.744	167.312
SIERRA	5.741	1.832	7.572
SISKIYOU	51.320	23.618	74.938
SOLANO	292.798	59.957	352.755
SONOMA	254.729	43.458	298.187
STANISLAUS	277.655	53.841	331.496
SUTTER	54.590	11.180	65.769
TEHAMA	59.851	24.304	84.155
TRINITY	10.662	2.988	13.650
TULARE	245.557	48.578	294.135
TUOLUMNE	39.839	8.358	48.196
VENTURA	445.837	71.228	517.065
YOLO	127.255	37.232	164.487
YUBA	42.717	8.212	50.929
TOTAL	21319.723	3817.513	25137.235

VFC in Million Gallons